

STP-9720(00)X
CASTINE TO PENOBSCOT

BEFORE SUBMITTING YOUR BID

- 1. Use pen and ink to complete the Bid.**
- 2. Have you signed and completed the Contract Agreement, Offer & Award Forms?**
- 3. As a minimum, the Bidder will submit a Bid Package consisting of the Notice to Contractors, the completed Acknowledgement of Bid Amendments & Submission of Bid Bond Validation Number form, the completed Schedule of Items, 2 copies of the completed Agreement, Offer, & Award form, a Bid Bond or Bid Guarantee, and any other Certifications or Bid Requirements listed in the Bid Book.**
- 4. Have you included prices for all Bid Items? (“Zero is not considered a bid price.”)**
- 5. Have you included a bid guarantee? Acceptable forms are:**
 - A. Bid Bond on the Department’s prescribed form for 5% of the Bid Amount. (Or forms that do not contain any significant variations from the Department’s forms as solely determined by the Department.)**
 - B. Official Bank Check, Cashier’s Check, Certified Check, U.S. Postal Money Order or Negotiable Certificate of Deposit in the amount stated in the Notice to Contractors.**
- 6. If the written Bid is to be sent, Federal Express overnight delivery is suggested as the package is delivered directly to the DOT Headquarters Building in Winthrop. Other means, such as U.S. Postal Services’ Express Mail has proven not to be reliable.**

AND FOR FEDERAL AID PROJECTS

- 7. Have you included your DBE Utilization commitment in the proper amounts and signed the DBE Certification?**

If you need further information regarding Bid preparation, call the DOT Contracts Section at (207)624-3430.

For complete specifications regarding bidding requirements, refer to Section 102 of the Maine Department of Transportation, Standard Specifications, Revision December 2002.

NOTICE

The Maine Department of Transportation is attempting to improve the way Bid Amendments/Addendums are handled, and allow for an electronic downloading of bid packages from our website, while continuing to maintain a planholders list.

Prospective bidders, subcontractors or suppliers who wish to download a copy of the bid package and receive a courtesy notification of project specific bid amendments, must provide an email address to Diane Barnes at the MDOT Contracts mailbox at: MDOT.contracts@maine.gov. Each bid package will require a separate request. Please provide us an email address, so we can maintain the planholders list that both the industry and MDOT uses.

Additionally, the new Acknowledgement of Bid Amendment form will be placed in MDOT bid packages beginning with the 2/12/03 advertisements. After that date, interested parties will be responsible for reviewing and retrieving the Bid Amendments from our web site, and acknowledging receipt and incorporating those Bid Amendments in their bids.

The downloading of bid packages from the MDOT website is not the same as providing an electronic bid to the Department. Electronic bids must be submitted via <http://www.BIDX.com>. For information on electronic bidding contract Rebecca Pooler at rebecca.pooler@maine.gov.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
Bid Guaranty-Bid Bond Form

KNOW ALL MEN BY THESE PRESENTS THAT_____

_____, of the City/Town of _____ and State of _____

as Principal, and _____ as Surety, a

Corporation duly organized under the laws of the State of _____ and having a usual place of

Business in _____ and hereby held and firmly bound unto the Treasurer of

the State of Maine in the sum of _____ for payment which Principal and Surety bind

themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

The condition of this obligation is that the Principal has submitted to the Maine Department of

Transportation, hereafter Department, a certain bid, attached hereto and incorporated as a

part herein, to enter into a written contract for the construction of _____

_____ and if the Department shall accept said bid

and the Principal shall execute and deliver a contract in the form attached hereto (properly

completed in accordance with said bid) and shall furnish bonds for this faithful performance of

said contract, and for the payment of all persons performing labor or furnishing material in

connection therewith, and shall in all other respects perform the agreement created by the

acceptance of said bid, then this obligation shall be null and void; otherwise it shall remain in full

force, and effect.

Signed and sealed this _____ day of _____ 20____

WITNESS:

WITNESS

PRINCIPAL:

By _____

By: _____

By: _____

SURETY:

By _____

By: _____

Name of Local Agency: _____

NOTICE

For security and other reasons, all Bid Packages which are mailed, shall be provided in double (one envelope inside the other) envelopes. The *Inner Envelope* shall have the following information provided on it:

Bid Enclosed - Do Not Open

PIN:

Town:

Date of Bid Opening:

Name of Contractor with mailing address and telephone number:

In Addition to the usual address information, the *Outer Envelope* should have written or typed on it:

Double Envelope: Bid Enclosed

PIN:

Town:

Date of Bid Opening:

Name of Contractor:

This should not be much of a change for those of you who use Federal Express or similar services.

Hand-carried Bids may be in one envelope as before, and should be marked with the following information:

Bid Enclosed: Do Not Open

PIN:

Town:

Name of Contractor:

INSTRUCTIONS FOR PREPARING THE CONTRACTOR'S DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION PLAN

The Contractor Shall:

1. Submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan to the Contract's Engineer by 4:30 P.M. on the Bid day.
2. Extend equal opportunity to MDOT certified DBE firms (as listed in MDOT's DBE Directory of Certified Businesses) in the selection and utilization of Subcontractors and Suppliers.

SPECIFIC INSTRUCTIONS FOR COMPLETING THE FORM:

Insert Contractor name, the name of the person(s) preparing the form, and that person(s) telephone and fax number.

Provide total Bid price, Federal Project Identification Number, and location of the Project work.

In the columns, name each DBE firm to be used, provide the Unit or Item cost of the Work/Product to be provided by the DBE firm, give a brief description of the Work, and the dollar value of the Work.

If no DBE firm is to be utilized, the Contractor must document the reason(s) why no DBE firms are being used. Specific supporting evidence of good faith efforts taken by Contractors to solicit DBE Bidders must be attached. This evidence, as a minimum, includes phone logs, e-mail and/or mail DBE solicitation records, and the documented results of these solicitations.

NOTICE

The Department has revised the Disadvantaged Business Enterprise Proposed Utilization form and the procedure that has been used for the past several months for Contractors to submit the form.

The Apparent Low Bidder now must submit the form by close of Business (4:30 P.M.) on Bid day.

The new Contractor's Disadvantaged Business Enterprise Proposed Utilization Plan form contains additional information that is required by USDOT.

The Disadvantaged Business Enterprise Proposed Utilization Plan form will no longer be used. The new Contractor's Disadvantaged Business Enterprise Proposed Utilization Plan form must be used.

A copy of the new Contractor's Disadvantaged Business Enterprise Proposed Utilization Plan and instructions for completing it are attached.

Note: Questions about DBE firms, or to obtain a printed copy of the DBE Directory, contact Equal Opportunity at (207) 624-3066.

MDOTs DBE Directory of Certified firms can also be obtained at http://www.state.me.us/mdot/humnres/o_equalo/cdwbed_h.htm

NOTICE

Bidders:

Please use the attached “Request for Information” form when faxing questions and comments concerning specific Contracts that have been Advertised for Bid. Include additional numbered pages as required.

REQUEST FOR INFORMATION

Response By:_____ Date:_____

CONTRACTOR'S DISADVANTAGED BUSINESS ENTERPRISE PROPOSED UTILIZATION PLAN

Low Bidder shall furnish completed form to Contracts Section by 4:30 P.M. on Bid Opening day.

TO: MDOT Contracts Section
16 State House Station,
Augusta, Me 04333-0016
or
Fax: 207-624-3431

Contractor: _____

Prepared by: _____

Telephone: _____ Fax: _____

BID PRICE: \$ _____ FEDERAL PROJECT # _____ LOCATION: _____

TOTAL DBE PARTICIPATION AS A PERCENT OF TOTAL BID PRICE = _____ %

DBE Firm*	Unit/Item Cost	Unit #	Description of work & Item Number	Actual \$ Value
Total >				

If no DBE firm(s) are used, bidder must document efforts made to secure DBE participation and attach supporting evidence of this effort:

_____.

Examples: Bidder relies wholly upon low quote subcontractor section, DBE firm(s) were not low quote.
No DBE firms bid.

*Only DBE firms certified by MDOT prior to bidding can be utilized by Contractor for DBE credit.
Directory of certified DBEs is available on MDOT's website: www.state.me.us/mdot

Equal Opportunity Use:

Plan received ____/____/____ Verified by: _____ Action: _____



Office of Human Resources

Equal Opportunity

MAINE DEPARTMENT OF TRANSPORTATION

Certified Disadvantaged and Women Business Enterprise

DBE DIRECTORY - MINORITY OWNED

WBE DIRECTORY - WOMEN OWNED

WEBSITE FOR DIRECTORY CAN BE FOUND AT:

http://www.state.me.us/mdot/humnres/o_equalo/cdwbed_h.htm

It is the responsibility of the Contractor to access the DBE Directory at this site in order to have the most current listings.

**STATE OF MAINE DEPARTMENT OF TRANSPORTATION
NOTICE TO CONTRACTORS**

Scaled Bids addressed to the Maine Department of Transportation, Augusta, Maine 04333 and endorsed on the wrapper "Bid for the **Hot Mix Asphalt Overlay, Cold-In-Place Recycled Pavement, Full Construction Areas, Drainage and Safety Improvements**, in the towns of **Castine and Penobscot** will be received from contractors at the Reception Desk, Maine DOT Building, Child Street, Augusta, Maine, until 11:00 o'clock A.M. (prevailing time) on **October 22, 2003**, and at that time and place publicly opened and read. Bids will be accepted from contractors prequalified by the Department of Transportation for highway construction and paving projects. All other Bids may be rejected. **MDOT provides the option of electronic bidding. We accept electronic bids for those bid packages posted on the bidx.com website. Electronic bids do not have to be accompanied by paper bids. Please note: the Department will accept a facsimile of the bid bond; however, the original bid bond must then be received at the MDOT Contract Section within 72 hours of the bid opening. Until further notice, dual bids (one paper, one electronic) will be accepted, with the paper copy taking precedence.**

Description: Maine Federal Aid Project No. STP-9720(00)X , PIN 9720.00

Location: In Hancock County, project is located at the start of route 166 and extending northerly 1.30 miles to route 166A and continuing on route 166A and extending 3.77 miles to route 166 and continuing northerly 1.89 miles to route 175.

Outline of Work: Hot Mix Asphalt Overlay, Cold-In-Place Recycled Pavement, Excavation, Gravel, Drainage and Safety Improvements and other incidental work.

For general information regarding Bidding and Contracting procedures, contact Bruce Carter at (207)624-3430. Our webpage at <http://www.state.me.us/mdot/project/design/homepg.htm> contains a copy of the schedule of items, Plan Holders List, written portions of bid amendments (not drawings), and bid results. For Project-specific information fax all questions to **James Andrews** at (207)624-3401. Questions received after 12:00 noon of Monday prior to bid date will not be answered. Bidders shall not contact any other Departmental staff for clarification of Contract provisions, and the Department will not be responsible for any interpretations so obtained. Hearing impaired persons may call the Telecommunication Device for the Deaf at (207)287-3392.

Plans, specifications and bid forms may be seen at the Maine DOT Building in Augusta, Maine. They may be purchased from the Department between the hours of 8:00 a.m. to 4:30 p.m. by cash, credit card (Visa/Mastercard) or check payable to Treasurer, State of Maine sent to Maine Department of Transportation, Attn: Mailroom, 16 State House Station, Augusta, Maine 04333-0016. They also may be purchased by telephone at (207)624-3536 between the hours of 8:00 a.m. to 4:30 p.m. Bid Book \$10 (\$13 by mail), payment in advance, all non-refundable.

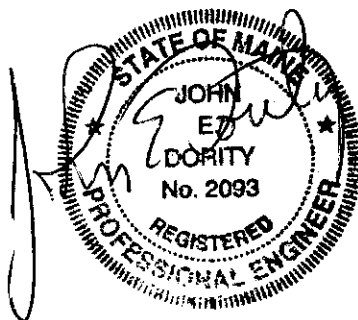
Each Bid must be made upon blank forms provided by the Department and must be accompanied by a bid bond at 5% of the bid amount or an official bank check, cashier's check, certified check, certificate of deposit, or United States postal money order in the amount of **\$80,000** payable to Treasurer, State of Maine as a Bid guarantee. A Contract Performance Surety Bond and a Contract Payment Surety Bond, each in the amount of 100 percent of the Contract price, will be required of the successful Bidder.

This Contract is subject to all applicable Federal Laws. This contract is subject to compliance with the Disadvantaged Business Enterprise program requirements as set forth by the Maine Department of Transportation.

All work shall be governed by "State of Maine, Department of Transportation, Standard Specifications, Revision of December 2002", price \$10 [\$13 by mail], and Standard Details, Revision of December 2002, price \$20 [\$25 by mail] Standard Detail updates can be found at <http://www.state.me.us/mdot/project/design/homepg.htm>

The right is hereby reserved to the MDOT to reject any or all Bids.

Augusta, Maine
October 1, 2003



JOHN E. DORITY
CHIEF ENGINEER

SPECIAL PROVISION 102.7.3
ACKNOWLEDGMENT OF BID AMENDMENTS
&
SUBMISSION OF BID BOND VALIDATION NUMBER (IF APPLICABLE)

With this form, the Bidder acknowledges its responsibility to check for all Amendments to the Bid Package. For each Project under Advertisement, Amendments are located at <http://www.state.me.us/mdot/project/design/schedule.htm>. It is the responsibility of the Bidder to determine if there are Amendments to the Project, to download them, and to incorporate them into their Bid Package. The Maine DOT will not post Bid Amendments any later than noon the day before Bid opening.

Amendment Number	Date

The Contractor, for itself, its successors and assigns, hereby acknowledges that it has received all of the above referenced Amendments to the Bid Package. Failure to acknowledge receipt of all Amendments to the Bid Package will be considered a Non-curable Bid Defect in accordance with Section 102.11.1 of the Standard Specifications, Revision of December 2002.

CONTRACTOR

Date

Signature of authorized representative

(Name and Title Printed)

Bid Bond Validation Number _____
(Applicable to annual bid bonds or electronic bid bonds.)

MAINE DEPARTMENT OF TRANSPORTATION

BID

DATE OF OPENING :

CALL ORDER :

CONTRACT ID : 009720.00

PROJECTS

STP-9720(00)X

COUNTY : HANCOCK

SCHEDULE OF ITEMS

DATE: 030926

REVISED:

CONTRACT ID: 009720.00

PROJECT(S): STP-9720(00)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 HIGHWAY ITEMS

0010	201.11 CLEARING	0.100				
		HA				
0020	201.23 REMOVING SINGLE TREE TOP ONLY	26.000				
		EA				
0030	201.24 REMOVING STUMP	26.000				
		EA				
0040	202.127 REMOVE EXISTING BITUMINOUS PAVEMENT	LUMP	LUMP			
0050	202.203 PAVEMENT BUTT JOINTS	740.000				
		M2				
0060	203.2001 COMMON EXCAVATION - PLAN QUANTITY	3724.000				
		M3				
0070	203.21 ROCK EXCAVATION	10.000				
		M3				
0080	206.0619 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES - BELOW GRADE	15.240				
		M3				
0090	211.20 INSLOPE EXCAVATION	1300.000				
		M				
0100	211.30 DITCH EXCAVATION	12488.000				
		M				

SCHEDULE OF ITEMS

DATE: 030926

REVISED:

CONTRACT ID: 009720.00

PROJECT(S): STP-9720(00)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	304.102 AGGREGATE SUBBASE COURSE - GRAVEL (PIT MEASURE)	9664.000 M3				
0120	310.14 COLD-IN-PLACE RECYCLING	48753.600 M2				
0130	403.207 HOT MIX ASPHALT 19.0 MM NOMINAL MAX SIZE	8001.000 MG				
0140	403.208 HOT MIX ASPHALT 12.5 MM, SURFACE	5561.290 MG				
0150	403.209 HOT MIX ASPHALT 9.5 MM(SIDEWALKS,DRIVES, INCIDENTAL)	80.000 MG				
0160	403.210 HOT MIX ASPHALT 9.5 MM NOMINAL MAX SIZE	4724.000 MG				
0170	403.211 HOT MIX ASPHALT (SHIM)	1500.000 MG				
0180	403.213 HOT MIX ASPHALT 12.5 MM, BASE	1034.000 MG				
0190	409.15 BITUMINOUS TACK COAT APPLIED	12680.000 L				
0200	502.41 STRUCTURAL CONCRETE SUPERSTRUCTURE SLAB	30.000 M3				
0210	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP	LUMP			

SCHEDULE OF ITEMS

DATE: 030926

REVISED:

CONTRACT ID: 009720.00

PROJECT(S): STP-9720(00)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	503.14 EPOXY COATED REINFORCING STEEL, FABRICATED AND DELIVERED	4200.000 KG				
0230	503.15 EPOXY COATED REINFORCING STEEL PLACING	4200.000 KG				
0240	508.13 MEMBRANE WATERPROOFING	LUMP	LUMP			
0250	603.16 375 MM CULVERT PIPE OPTION I	637.000 M				
0260	603.161 375 MM CORRUGATED METAL PIPE	1.200 M				
0270	603.169 375 MM CULVERT PIPE OPTION III	65.200 M				
0280	603.17 450 MM CULVERT PIPE OPTION I	470.000 M				
0290	603.179 450 MM CULVERT PIPE OPTION III	100.100 M				
0300	603.191 600 MM CORRUGATED METAL PIPE	6.000 M				
0310	603.199 600 MM CULVERT PIPE OPTION III	68.300 M				
0320	603.219 900 MM CULVERT PIPE OPTION III	20.000 M				

SCHEDULE OF ITEMS

DATE: 030926

REVISED:

CONTRACT ID: 009720.00

PROJECT(S): STP-9720(00)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0330	604.247 CATCH BASIN TYPE F5-C	EA 2.000				
0340	605.09 150 MM UNDERDRAIN TYPE B	M 100.000				
0350	606.1722 BRIDGE TRANSITION - TYPE 2	EA 4.000				
0360	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	M 239.000				
0370	606.231 GUARDRAIL TYPE 3C - 4.5 M RADIUS AND LESS	M 53.300				
0380	606.232 GUARDRAIL TYPE 3C - OVER 4.5 M RADIUS	M 7.600				
0390	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	EA 8.000				
0400	606.35 GUARDRAIL DELINEATOR POST	EA 59.000				
0410	606.364 GUARDRAIL REMOVE, MODIFY AND RESET, TYPE 3B	M 214.000				
0420	606.47 SINGLE WOOD POST	EA 5.000				
0430	606.74 GUARDRAIL TYPE 3 - SINGLE RAIL BRIDGE MOUNTED	M 20.000				

SCHEDULE OF ITEMS

DATE: 030926

REVISED:

CONTRACT ID: 009720.00

PROJECT(S): STP-9720(00)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0440	606.79 GUARDRAIL 350 FLARED TERMINAL	10.000 EA				
0450	609.247 TERMINAL CURB TYPE 2 - 2.1 METER	4.000 EA				
0460	609.31 CURB TYPE 3	901.000 M				
0470	610.08 PLAIN RIPRAP	120.000 M3				
0480	610.18 STONE DITCH PROTECTION	620.000 M3				
0490	613.319 EROSION CONTROL BLANKET	15246.000 M2				
0500	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	578.000 UN				
0510	619.1201 MULCH - PLAN QUANTITY	578.000 UN				
0520	620.58 EROSION CONTROL GEOTEXTILE	2340.000 M2				
0530	627.76 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LUMP	LUMP			
0540	629.05 HAND LABOR, STRAIGHT TIME	30.000 HR				

SCHEDULE OF ITEMS

DATE: 030926

REVISED:

CONTRACT ID: 009720.00

PROJECT(S): STP-9720(00)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0550	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	75.000 HR				
0560	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	150.000 HR				
0570	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	30.000 HR				
0580	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	40.000 HR				
0590	639.19 FIELD OFFICE TYPE B	1.000 EA				
0600	652.39 WORK ZONE TRAFFIC CONTROL	LUMP	LUMP			
0610	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0620	659.10 MOBILIZATION	LUMP	LUMP			
0630	660.21 ON-THE-JOB TRAINING (BID)	1000.000 HR				
	SECTION 0001 TOTAL					
	TOTAL BID					

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street, Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, STP-9720(00)X, PIN No. 9720.00, for the Hot Mix Asphalt Overlay, Cold-In-Place Recycled Pavement, Full Construction Areas, drainage and Safety Improvements in the towns of Castine and Penobscot, County of Hancock, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **October 30, 2004**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is _____

\$_____ Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: STP-9720(00)X, PIN No. 9720.00, for the Hot Mix Asphalt Overlay, Cold-In-Place Recycled Pavement, Full Construction Areas, drainage and Safety Improvements in the towns of Castine and Penobscot, County of Hancock, Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work on the date specified in the Engineer's "Notice to Commence Work" as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted. This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David A. Cole, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street, Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

_____ a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at _____

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, STP-9720(00)X, PIN No. 9720.00, for the Hot Mix Asphalt Overlay, Cold-In-Place Recycled Pavement, Full Construction Areas, drainage and Safety Improvements in the towns of Castine and Penobscot, County of Hancock, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **October 30, 2004**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is _____

\$_____ Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications Revision of December 2002, Standard Details Revision of December 2002 as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of: STP-9720(00)X, PIN No. 9720.00, for the Hot Mix Asphalt Overlay, Cold-In-Place Recycled Pavement, Full Construction Areas, drainage and Safety Improvements in the towns of Castine and Penobscot, County of Hancock, Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work on the date specified in the Engineer's "Notice to Commence Work" as stated in Section 107.2 of the Standard Specifications Revision of December 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

Date

(Signature of Legally Authorized Representative
of the Contractor)

Witness

(Name and Title Printed)

G. Award.

Your offer is hereby accepted.
documents referenced herein.

This award consummates the Contract, and the

MAINE DEPARTMENT OF TRANSPORTATION

Date

By: David A. Cole, Commissioner

Witness

CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

(Name of the firm bidding the job)

a corporation or other legal entity organized under the laws of the State of Maine, with its principal place of business located at **(address of the firm bidding the job)**

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

A. The Work.

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, PIN No. **1224.00**

for the **Hot Mix Asphalt Overlay** in the town/city of **West Eastport**, County of **Washington**, Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

B. Time.

The Contractor agrees to complete all Work, except warranty work, on or before **November 15**, 2003. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the State of Maine Department of Transportation Standard Specifications, Revision of December 2002.

C. Price.

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is (Place bid here in alphabetical form such as One Hundred and Two dollars and 10 cents) Performance Bond and Payment Bond each being 100% of the amount of this Contract.

D. Contract.

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

E. Certifications.

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in Appendix A to Division 100 of the Standard Specifications Revision of December 2002 (Federal Contract Provisions Supplement), and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

F. Offer.

The undersigned, having carefully examined the site of work, the Plans, Standard Specifications, Revision of December 2002, Standard Details Revision of December 2002, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

PIN 1234.00 West Eastport, Hot Mix Asphalt Overlay

State of Maine, on which bids will be received until the time specified in the "Notice to Contractors" do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached "Schedule of Items".

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached "Schedule of Items" in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached "Schedule of Items", which may be ordered by the Resident, and to accept as full compensation the amount determined upon a "Force Account" basis as provided in the Standard Specifications, Revision of December 2002, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier's check, certificate of deposit or U. S. Postal Money Order in the amount given in the "Notice to Contractors", payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work on the date specified in the Engineer's "Notice to Commence Work" as stated in Section 107.2 of the Standard Specifications Revision of 2002 and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor's Disadvantaged Business Enterprise Utilization Plan by 4:30pm on the day of bid opening to the Contracts Engineer.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR
(Sign Here)

(Signature of Legally Authorized Representative
of the Contractor)
(Witness Sign Here) _____ (Print Name Here)
Witness _____
(Name and Title Printed)

G. Award.

Your offer is hereby accepted.
documents referenced herein.

This award consummates the Contract, and the

MAINE DEPARTMENT OF TRANSPORTATION

Date

(Witness)

By: David A. Cole, Commissioner

BOND # _____

CONTRACT PERFORMANCE BOND
(Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____
_____ **and the State of** _____, as principal,
and _____,
a corporation duly organized under the laws of the State of _____ and having a
usual place of business _____,
as Surety, are held and firmly bound unto the Treasurer of the State of Maine in the sum
of _____ **and 00/100 Dollars (\$** _____ **)**,
to be paid said Treasurer of the State of Maine or his successors in office, for which
payment well and truly to be made, Principal and Surety bind themselves, their heirs,
executors and administrators, successors and assigns, jointly and severally by these
presents.

The condition of this obligation is such that if the Principal designated as Contractor in
the Contract to construct Project Number _____ in the Municipality of
_____ promptly and faithfully performs the Contract, then this
obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the State
of Maine.

Signed and sealed this _____ day of _____, 20....

WITNESSES:

Signature.....
Print Name Legibly

Signature

Print Name Legibly

SURETY ADDRESS:
.....
.....
.....
TELEPHONE.....

SIGNATURES:

CONTRACTOR:

Print Name Legibly
SURETY:

Print Name Legibly
NAME OF LOCAL AGENCY:
ADDRESS

BOND # _____

CONTRACT PAYMENT BOND
(Surety Company Form)

KNOW ALL MEN BY THESE PRESENTS: That _____
_____ **and the State of** _____, as principal,
and _____
a corporation duly organized under the laws of the State of _____ and having a
usual place of business in _____,
as Surety, are held and firmly bound unto the Treasurer of the State of Maine for the use
and benefit of claimants as herein below defined, in the sum of
_____ **and 00/100 Dollars (\$** _____ **)**
for the payment whereof Principal and Surety bind themselves, their heirs, executors and
administrators, successors and assigns, jointly and severally by these presents.

The condition of this obligation is such that if the Principal designated as Contractor in
the Contract to construct Project Number _____ in the Municipality of
_____ promptly satisfies all claims and demands incurred for all
labor and material, used or required by him in connection with the work contemplated by
said Contract, and fully reimburses the obligee for all outlay and expense which the
obligee may incur in making good any default of said Principal, then this obligation shall
be null and void; otherwise it shall remain in full force and effect.

A claimant is defined as one having a direct contract with the Principal or with a
Subcontractor of the Principal for labor, material or both, used or reasonably required for
use in the performance of the contract.

Signed and sealed this _____ day of _____, 20 .. .

WITNESS:

SIGNATURES:

CONTRACTOR:

Signature.....

Print Name Legibly

SURETY:

Signature.....

Print Name Legibly

SURETY ADDRESS:

NAME OF LOCAL AGENCY:

ADDRESS

.....

TELEPHONE

SPECIAL PROVISION PARTNERING

The successful bidder will have the opportunity to enter into a cooperative partnership agreement with the State Department of Transportation for the contract. The objective of this agreement is the effective completion of the work on time and to the standard of quality that will be a source of pride to both the State and the Contractor. The partnering agreement will not affect the terms of the contract. It is intended only to establish an environment of cooperation between the parties. If the partnering agreement is accepted.

1. Contractor shall select and provide a third-party facilitator to conduct the team building workshop for the Contractor and Department personnel. Facilitator selection shall require Department concurrence. The cost for the facilitator and his associated expenses will be shared equally by the Department on the next monthly estimate, following receipt of invoice(s) from the Contractor, on an extra work basis.
2. Contractor and Department will exchange lists of the key personnel to be participants in the workshop. The list will contain the name and job title of each person, a contact phone number, and the address for job related correspondence.
3. The Contractor shall select the location and make all arrangements for space as required by facilitator, and for any meals required. This cost to be shared equally.
4. A working arrangement for the partnership will be agreed upon in writing at the workshop. The arrangement will set out the mutually recognized goals and expectation of the parties.
5. The Contractor and the Department agree to make an effort to maintain identified key personnel assigned to the work for its duration. A timely notice by each shall be given if changes by either must be made.
6. Project issues shall be processed in the manner agreed upon by the parties during the orientation.
7. Follow-up workshops may be held periodically throughout the duration of the contract as agreed by the Contractor and the Department.
8. The Partnering Agreement is not intended to be a legal document. Failure by either party to follow the process identified will not be grounds for any claim under the contract.
9. ARE YOU INTERESTED IN THIS OPPORTUNITY? YES _____ NO _____

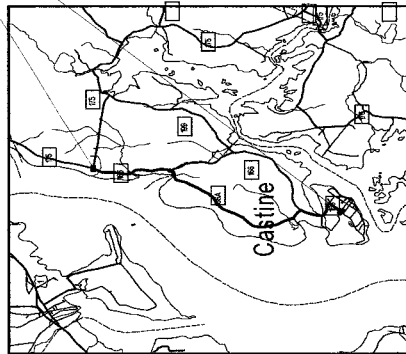
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



STP-9720(00)X

STA. 0+000 BEGIN PROJECT NO. 9720.00

STA. 11+77 END PROJECT NO. 9720.00



CASTINE-PENOBSCOT

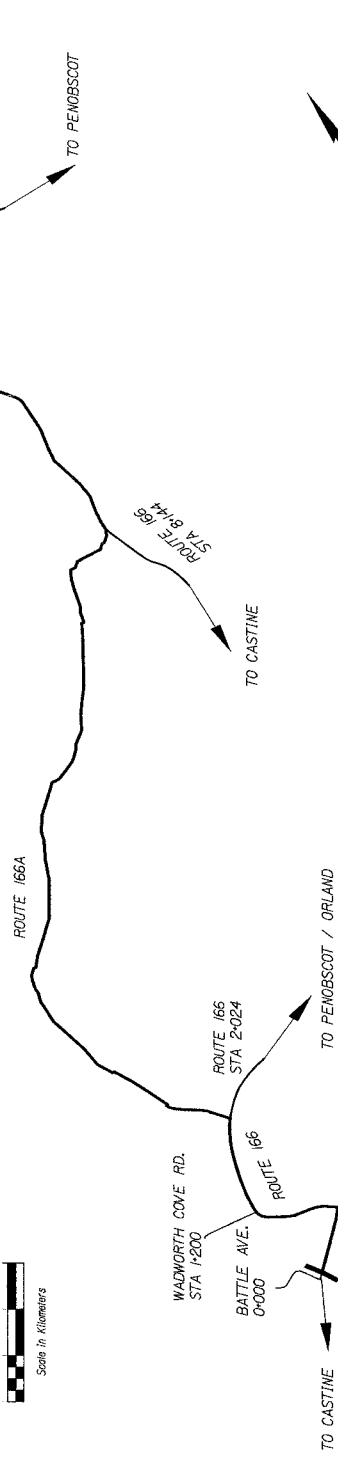
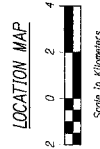
HANCOCK

ROUTE 166 & 166A

STP-9720(00)X

PROJECT LENGTH : 11.77 km (6.95 mi)
COLLECTOR HIGHWAY IMPROVEMENT PROJECT

STA. 11+77 END PROJECT NO. 9720.00



TRAFFIC DATA

Current (2002) AADT	2400
Future (2022) AADT	2880
DHV - % of AADT	12
Design Hour Volume	846
% Heavy Trucks (AADT)	8
% Heavy Trucks (DHV)	6
Directional Distribution (DHV)	55
80 KN Equivalent P 2.0	72
80 KN Equivalent P 2.5	72
Design Speed (km/h)	70

COLD IN PLACE RECYCLED ASPHALT PAVEMENT
HOT MIX ASPHALT OVERLAY
FULL CONSTRUCTION
VARIABLE DEPTH GRAVEL SHIM
DRAINAGE & SAFETY IMPROVEMENTS
INTERSECTION IMPROVEMENT

PROJECT INFORMATION	
PROGRAM	REGIONAL
PROJECT MANAGER	DAWN CORBIN
DESIGNER	DOUGLAS SARGENT
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	OCTOBER 30 2004

PROJECT INFORMATION	
DATE	9-12-03
P.E. NUMBER	8677
SIGNATURE	<i>Raimund</i>

STATE OF MAINE	
COMMISSIONER	<i>John E. Soudy</i>
CHIEF ENGINEER	<i>John E. Soudy</i>
APPROVED	
DATE	09/17/03

TITLE SHEET	
CASTINE-PENOBSCOT ROUTE 166 & 166A	
PIN 9720.00	
009720.00	
SHEET NUMBER	1
OF 1	

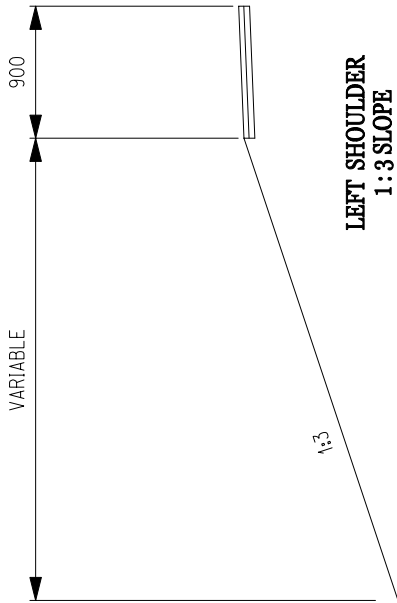
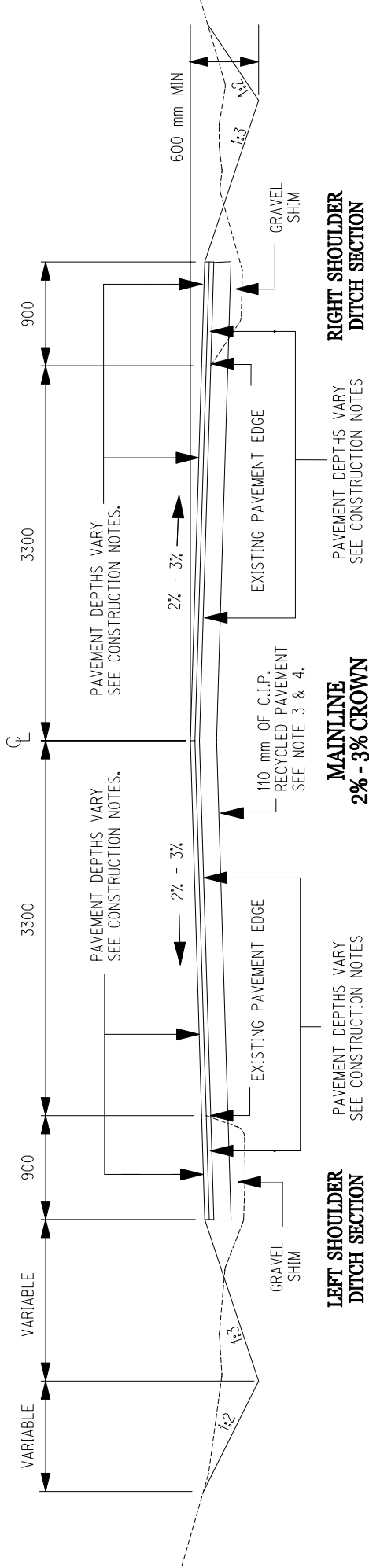
METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

DESIGN NO.	DATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	STP-972000K	001	01

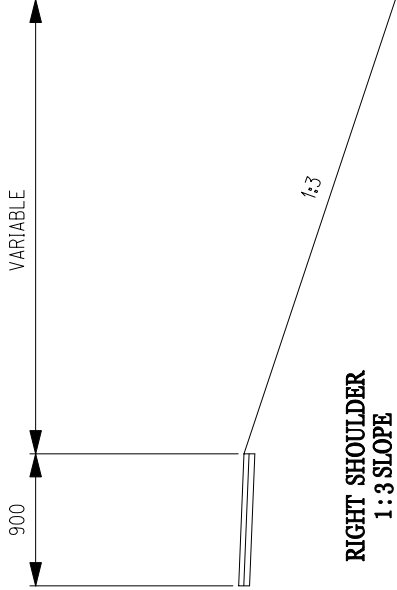
PN 9720.00

TYPICAL SECTIONS

COLD-IN-PLACE RECYCLED PAVEMENT
FOR STATIONS & DEPTHS OF HMA
PAVEMENTS SEE CONSTRUCTION NOTES.



**LEFT SHOULDER
1:3 SLOPE**



**RIGHT SHOULDER
1:3 SLOPE**

NOTES :

- BACKUP ALL PAVEMENT EDGES WITH EXISTING SHOULDER MATERIAL TO ALLOW NO GREATER THAN A 30 TO 40 mm DROP-OFF AND GRADE TO 1:3 OR FLATTER SEE GENERAL NOTE # 6
- SHOULDERS SHALL BE PAVED AT THE SAME CROSS SLOPE AS MAINLINE
- MAINLINE MILLING INVOLVED IN THE COLD-IN-PLACE RECYCLED PAVEMENT SHALL BE A DEPTH OF 110 MM TO CREATE ENOUGH MATERIAL TO PAVE ADJACENT SHOULDERS.
- SEE SPEC PROVISION 310. PAYMENT IS PER M2 FOR TRAVELWAY & SHOULDERS. TRAVELWAY ONLY WILL BE RECYCLED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

**CASTINE-PENOBSCOT
TYPICAL SECTION
NORMAL TRAVEL WAY
ROUTE 166 & 166A**

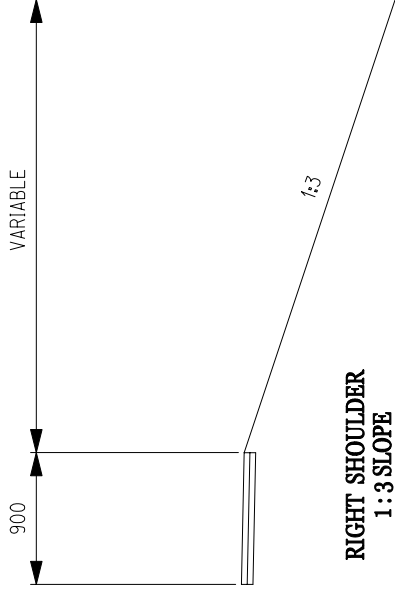
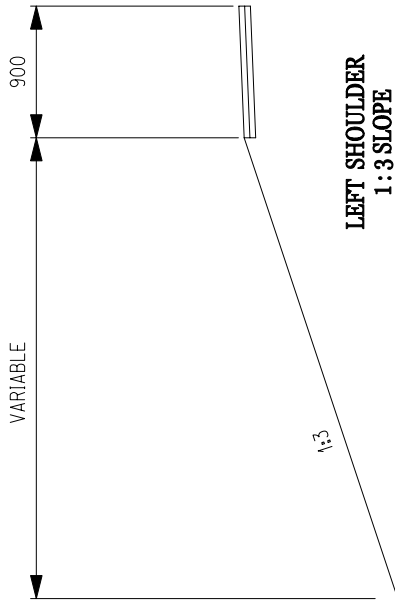
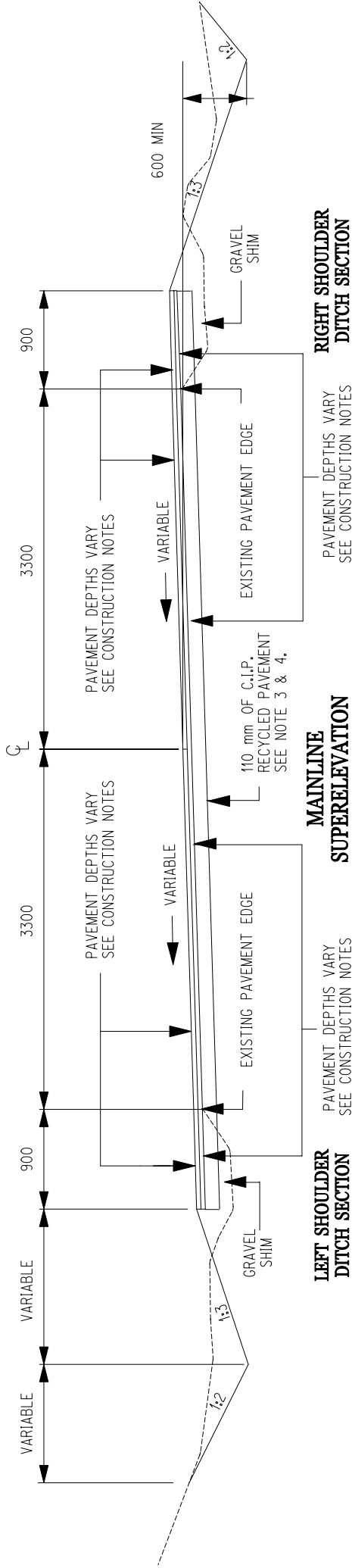
METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

PROJECT NUMBER	DATE	SCALE	REVISION
STP- 9720001K	MAINE	1	002
001			

PN 9720.00

TYPICAL SECTIONS

COLD-IN-PLACE RECYCLED PAVEMENT
FOR STATIONS & DEPTHS OF HMA
PAVEMENTS SEE CONSTRUCTION NOTES.



NOTES :

1. BACKUP ALL PAVEMENT EDGES WITH EXISTING SHOULDER MATERIAL TO ALLOW NO GREATER THAN A 30 TO 40 mm DROP-OFF AND GRADE TO 1:3 OR FLATTER SEE GENERAL NOTE # 6
2. SHOULDERS SHALL BE PAVED AT THE SAME CROSS SLOPE AS MAINLINE
3. MAINLINE MILLING INVOLVED IN THE COLD-IN-PLACE RECYCLED PAVEMENT SHALL BE A DEPTH OF 110 MM TO CREATE ENOUGH MATERIAL TO PAVE ADJACENT SHOULDERS.
4. SEE SPEC PROVISION 310. PAYMENT IS PER M2 FOR TRAVELWAY & SHOULDERS. TRAVELWAY ONLY WILL BE RECYCLED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CASCADE-PENOBSCOT

TYPICAL SECTION

SUPERELEVATION

ROUTE 166 & 166A

SHEET 002 OF 011

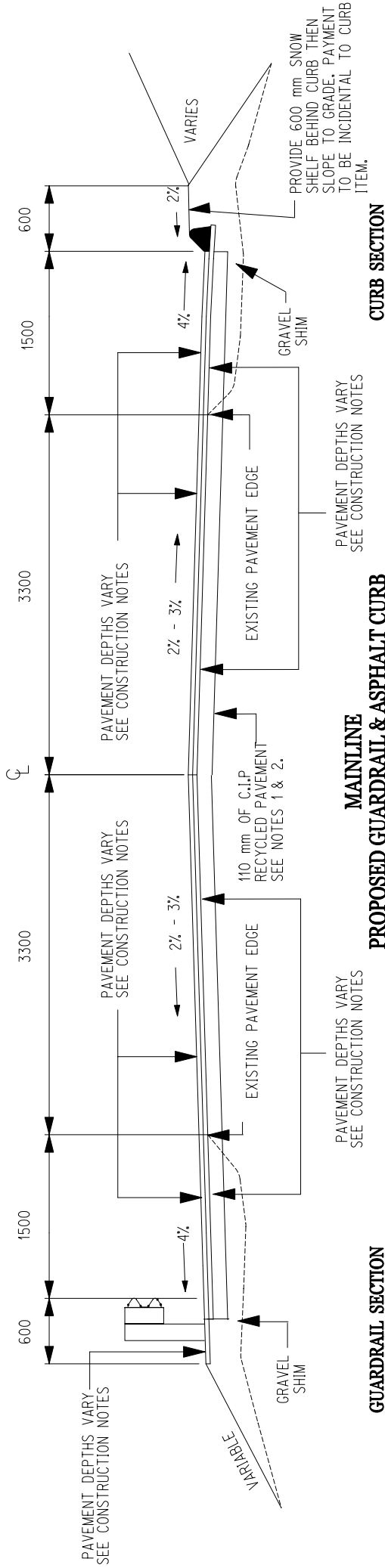
METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

PROJECT NUMBER	DATE	REVISION	BY
STP-972000X	003	01	

PIN 9720.00

TYPICAL PROPOSED GUARDRAIL & ASPHALT CURB SECTIONS

COLD-IN-PLACE RECYCLED PAVEMENT
FOR STATIONS & DEPTHS OF HMA
PAVEMENTS SEE CONSTRUCTION NOTES.



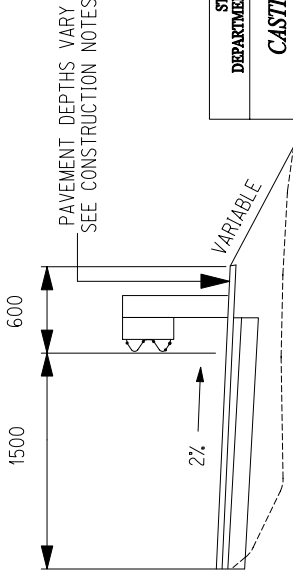
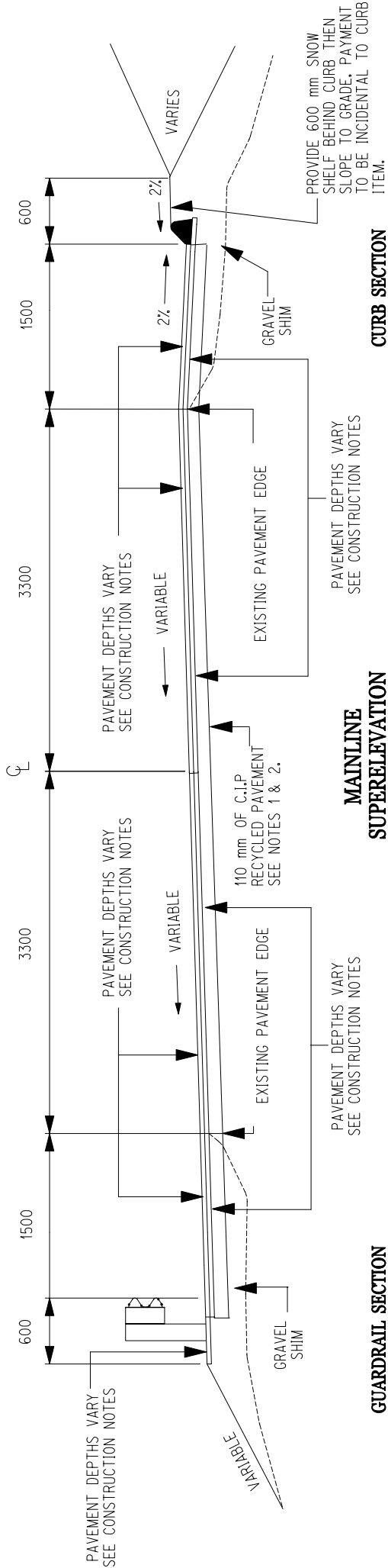
NOTES :

1. MAINLINE MILLING INVOLVED IN THE COLD-IN-PLACE RECYCLED PAVEMENT SHALL BE A DEPTH OF 110 MM TO CREATE ENOUGH MATERIAL TO PAVE ADJACENT SHOULDERS.
2. SEE SPEC PROVISION 310. PAYMENT IS PER M2 FOR TRAVELWAY & SHOULDERS. TRAVELWAY ONLY WILL BE RECYCLED.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
CASTINE-PENOBSCOT TYPICAL SECTION
PROPOSED GUARDRAIL & CURB ROUTE 166 & 166A
SHEET 003 OF 011

TYPICAL PROPOSED GUARDRAIL & ASPHALT CURB SECTIONS

COLD-IN-PLACE RECYCLED PAVEMENT
FOR STATIONS & DEPTHS OF HMA
PAVEMENTS SEE CONSTRUCTION NOTES.



NOTES:

1. MAINLINE MILLING INVOLVED IN THE COLD-IN-PLACE RECYCLED PAVEMENT SHALL BE A DEPTH OF 110 MM TO CREATE ENOUGH MATERIAL TO PAVE ADJACENT SHOULDERS.
2. SEE SPEC PROVISION 310. PAYMENT IS PER M2 FOR TRAVELWAY & SHOULDERS. TRAVELWAY ONLY WILL BE RECYCLED.
3. SHOULDER CROSS SLOPE SHALL BE 2% ON THE HIGH SIDE OF THE SUPERELEVATION WHEN THE ROLLOVER ALGEBRAIC DIFFERENCE IN THE RATE OF CROSS SLOPE EXCEEDS 8%.

METRIC

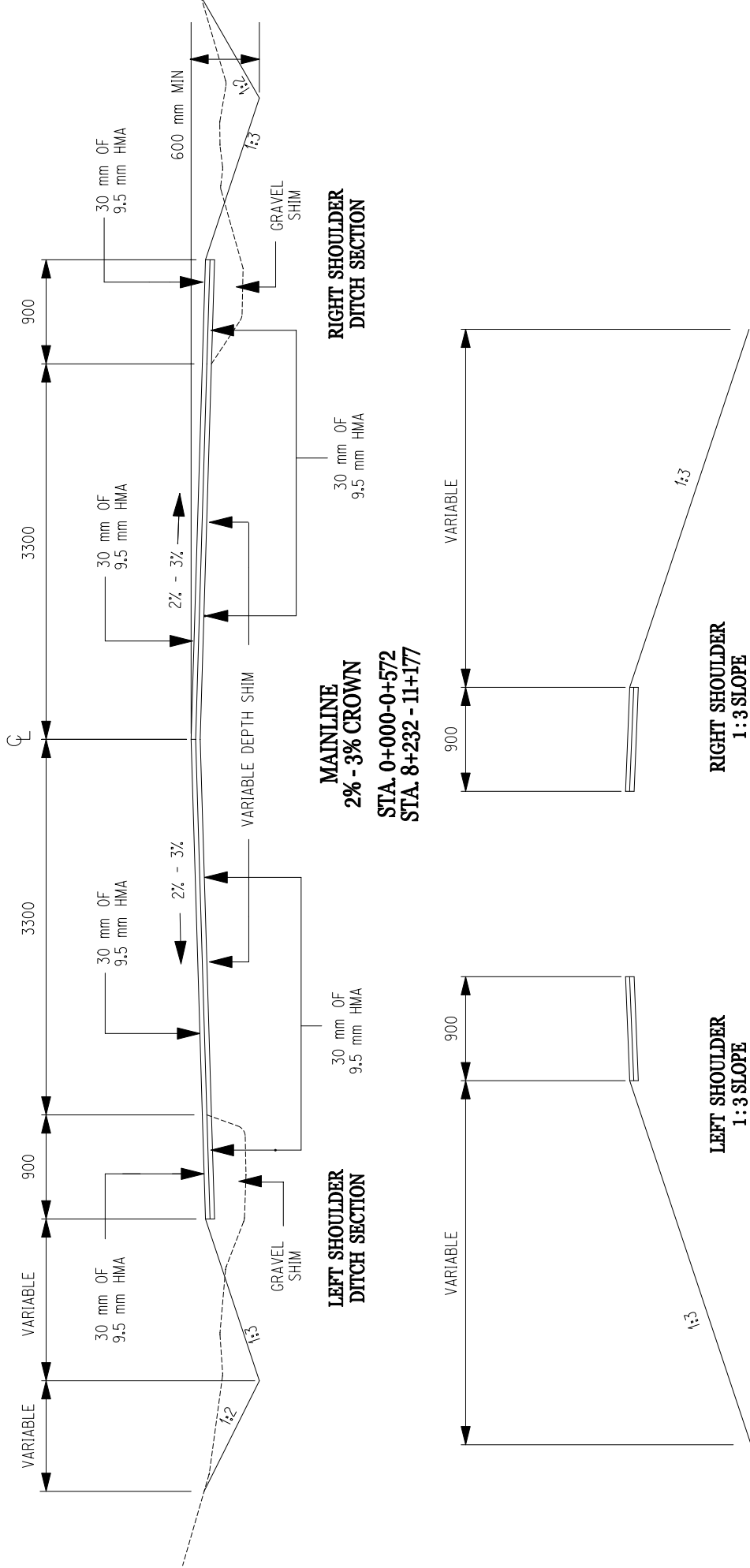
1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

PROJECT NUMBER	SHEET NO.	DATE	SCALE	REVISIONS
STP-972000X	005	01	1	MAINE

PN 9720.00

TYPICAL SECTIONS

30 mm of 9.5 mm HMA SURFACE
30 mm of 9.5 mm HMA BASE
VARIABLE DEPTH SHIM



NOTES:

- BACKUP ALL PAVEMENT EDGES WITH EXISTING SHOULDER MATERIAL TO ALLOW NO GREATER THAN A 30 mm DROP-OFF AND GRADE TO 1:3 OR FLATTER SEE GENERAL NOTE # 6

- SHOULDERS SHALL BE PAVED AT THE SAME CROSS SLOPE AS MAINLINE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CASTINE-PENOBSCOT

TYPICAL SECTION

NORMAL TRAVEL WAY

ROUTE 166 & 166A

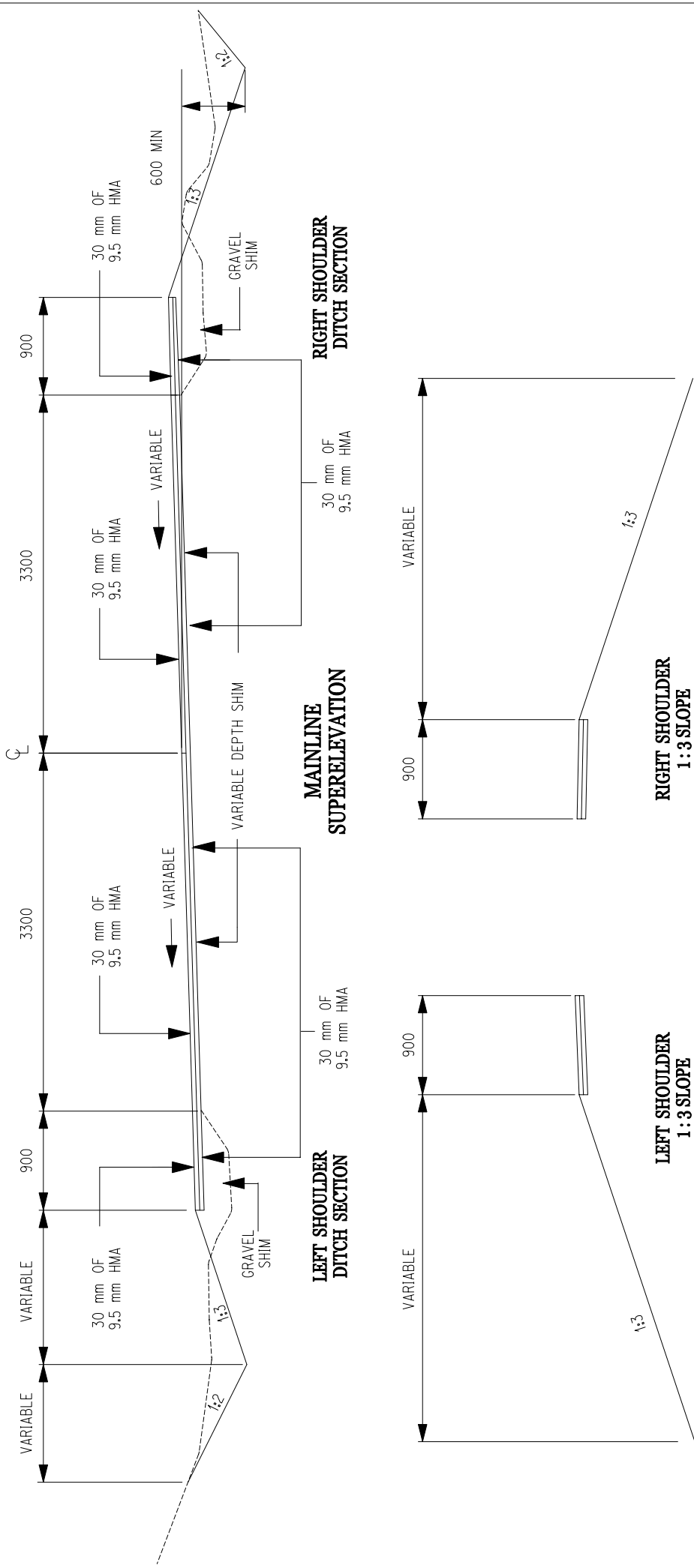
SHEET 005 OF 011

METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

PROJECT NUMBER	DATE	SCALE	SHEET NUMBER
STP-972000X	MAINE	1	006
PIN 9720.00			

TYPICAL SECTIONS

30 mm of 9.5 mm HMA SURFACE
30 mm of 9.5 mm HMA BASE
VARIABLE DEPTH SHIM



NOTES :

- BACKUP ALL PAVEMENT EDGES WITH EXISTING SHOULDER MATERIAL TO ALLOW NO GREATER THAN A 30 mm DROP-OFF AND GRADE TO 1:3 OR FLATTER SEE GENERAL NOTE # 6
- SHOULDERS SHALL BE PAVED AT THE SAME CROSS SLOPE AS MAINLINE

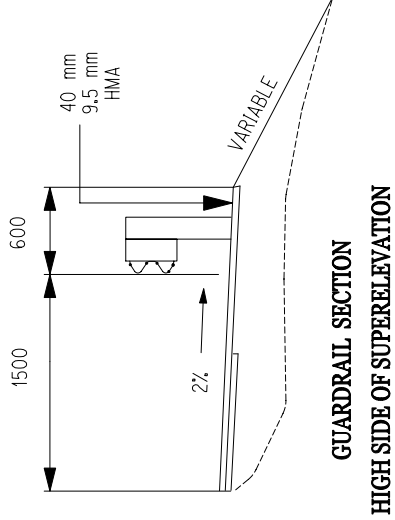
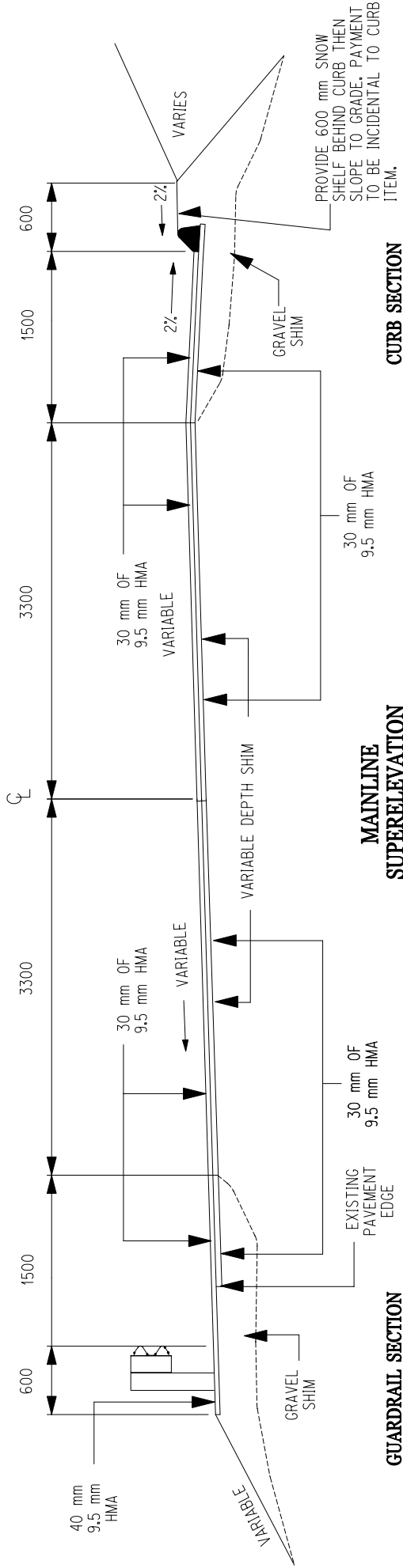
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	CASLINE-PENOBSCOT TYPICAL SECTION SUPERELEVATION ROUTE 166 & 166A SHEET 006 OF 011
--	--

METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

PROJECT NUMBER	DATE	SCALE	REVISION
STP-972000IX	008	01	
PIN 9720.00			

TYPICAL PROPOSED GUARDRAIL & ASPHALT CURB SECTIONS

30 mm of 9.5 mm HMA SURFACE
30 mm of 9.5 mm HMA BASE
VARIABLE DEPTH SHIM



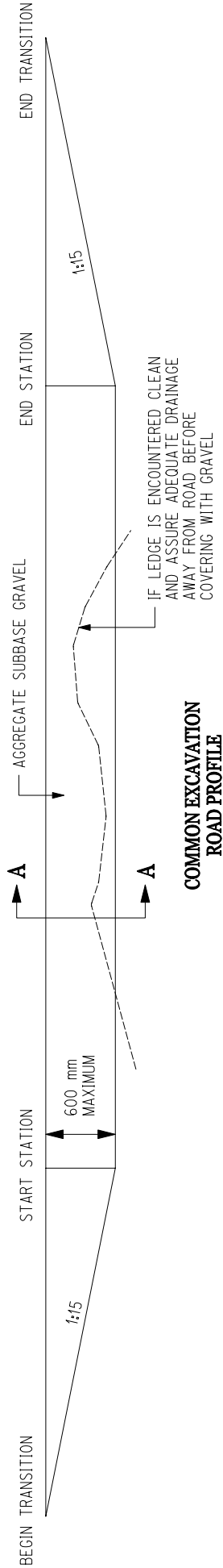
NOTE :

1. SHOULDER CROSS SLOPE SHALL BE 2% ON THE HIGH SIDE OF THE SUPERELEVATION WHEN THE ROLLOVER ALGEBRAIC DIFFERENCE IN THE RATE OF CROSS SLOPE EXCEEDS 8%.

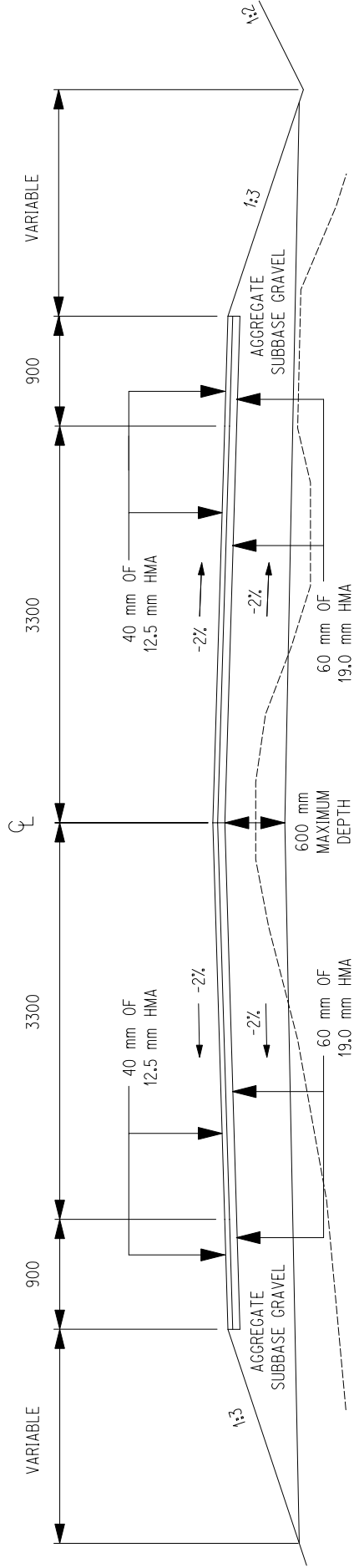
STATE OF MAINE DEPARTMENT OF TRANSPORTATION
CASTINE-PENOBSCOT TYPICAL SECTION
PROPOSED GUARDRAIL & CURB ROUTE 166 & 166A SHEET 008 OF 011

TYPICAL COMMON EXCAVATION SECTION

40 mm of 12.5 mm SURFACE
60 mm of 19.0 mm BASE



SECTION A - A



LEFT SHOULDER
1:3 SLOPE

MAINLINE
2% SLOPE

RIGHT SHOULDER
1:3 SLOPE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION
CASTINE-PENOBSCOT TYPICAL SECTION FULL CONSTRUCTION ROUTE 166 & 166A SHEET 009 OF 011

NOTES:

- BACKUP ALL PAVEMENT EDGES WITH EXISTING SHOULDER MATERIAL TO ALLOW NO GREATER THAN A 40 mm DROP-OFF AND GRADE TO 1:3 OR FLATTER SEE GENERAL NOTE # 6.
- SHOULDERS SHALL BE PAVED AT THE SAME CROSS SLOPE AS MAINLINE.

STA. 2+044 TO 2+159
STA. 2+290 TO 2+590
STA. 3+230 TO 3+290
STA. 4+971 TO 5+029
STA. 8+074 TO 8+144

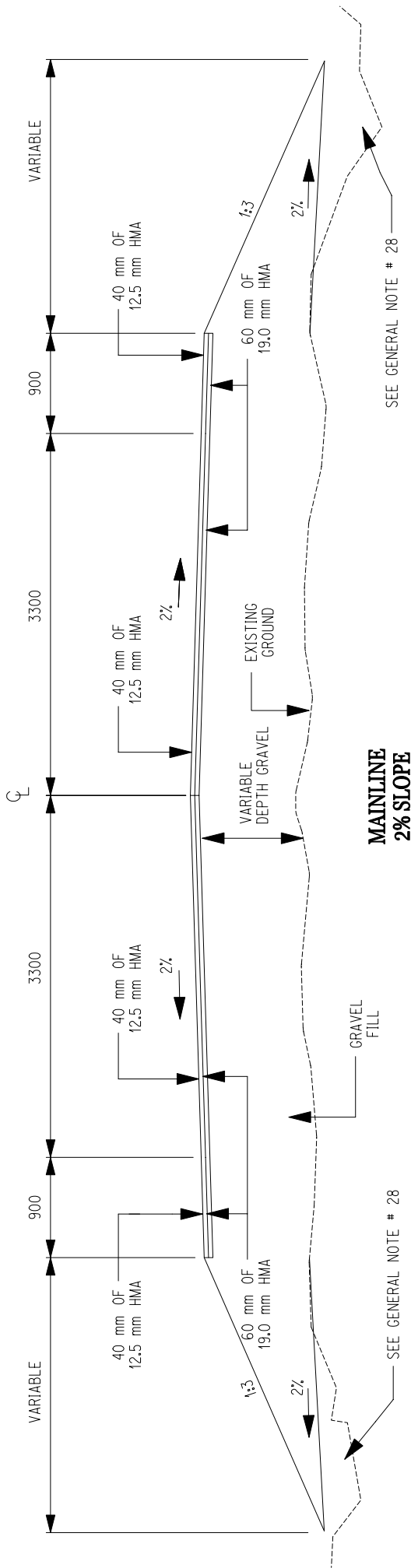
METRIC 1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

DATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	STP-972000X	010

PN 9720.00

TYPICAL GRAVEL SHIM FULL WIDTH SECTION

40 mm of 12.5 mm HMA SURFACE
60 mm of 19.0 mm HMA BASE



LEFT SHOULDER
1:3 SLOPE

MAINLINE
2% SLOPE

RIGHT SHOULDER
1:3 SLOPE

STA. 1+720 TO 1+880
STA. 2+670 TO 2+870
STA. 3+230 TO 3+294
STA. 5+030 TO 5+260
STA. 6+060 TO 6+400
STA. 7+804 TO 7+894
STA 30+000 TO 30+150 (SEE DESIGN PROFILES)

NOTES :

1. SHOULDERS SHALL BE PAVED AT THE SAME CROSS SLOPE AS MAINLINE.
2. SEE GRAVEL FILL WORKSHEET FOR VARIABLE DEPTH GRAVEL MARKUPS.
3. SEE GENERAL NOTE # 28.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

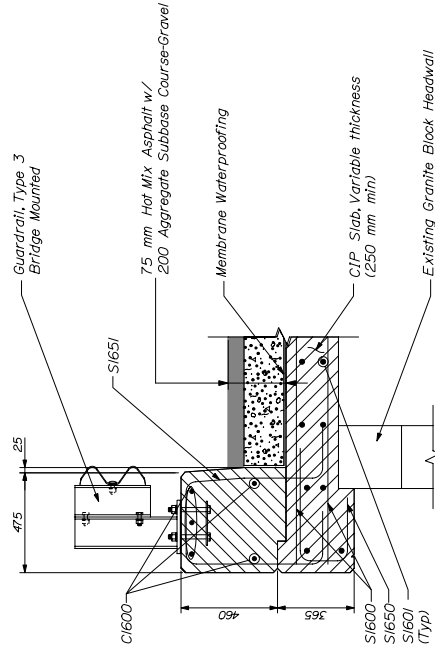
CASITINE-PENOBSCOT
TYPICAL SECTION
FULL DEPTH GRAVEL SHIM
ROUTE 166 & 166A
SHEET 010 OF 011

METRIC

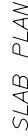
1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

F.J.W.A. REQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	STP-9720(00)X	011	011

9720.00



CURB SECTION



1. Form a 30 mm V-groove on the fascias at the horizontal joint between the curb and slab.
2. Reinforcing steel shall have a minimum cover of 50 mm unless otherwise noted.
3. Profile and cross-slope of the slab shall be determined in the field based on the elevations at the top of existing curbs and sidewalk.
4. Limits of approach work shall be determined in the field based on the final proposed curb and sidewalk elevations. Estimated limits of approach work and Subbase Course material shall be given for slab limits only and do not include approach work.
5. Structural Elevation may not be used for directly built, but shall be considered incidental to Item No. 302.4, Structural Concrete Superstructure Slab.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

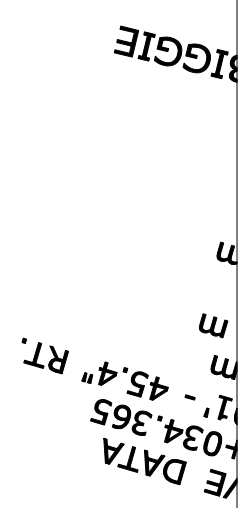
CASTINE-PENOBSCOT

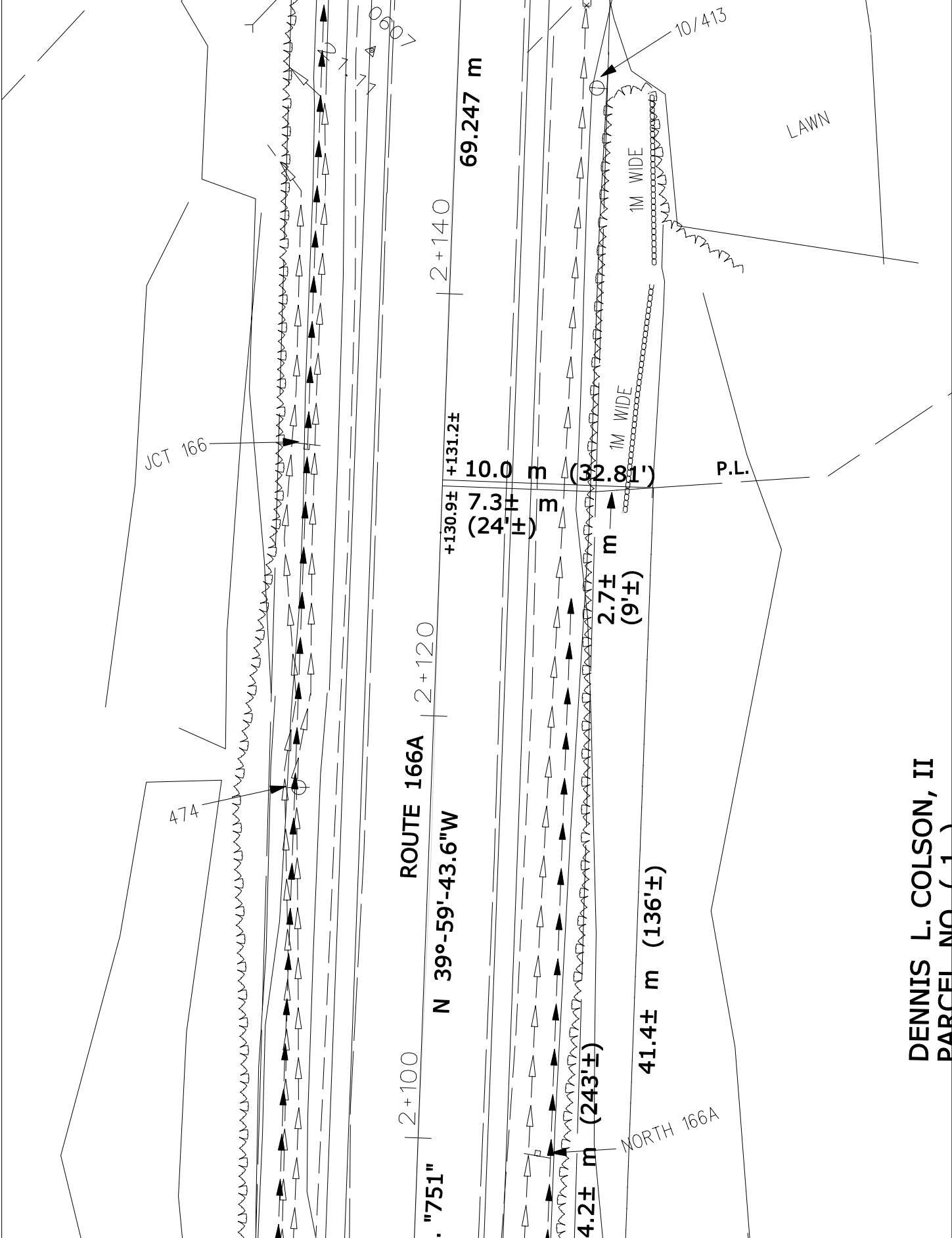
PROPOSED CONCRETE

SUPERSTRUCTURE SLAB

ROUTE 166 & 166A

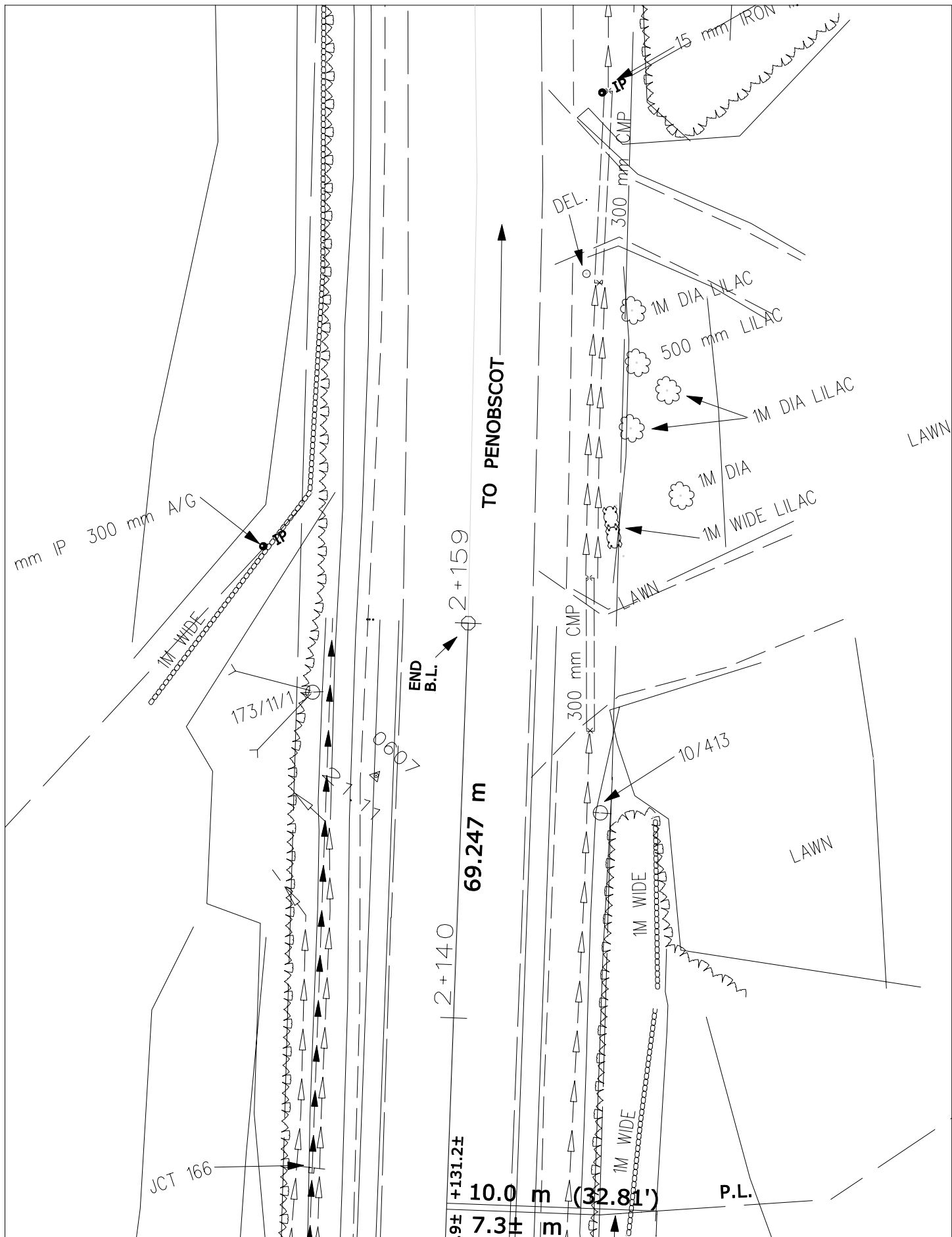
SHEET 011 OF 011





DENNIS L. COLSON, II
PARCEL NO. (1)

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	ROUTE 166A HANCOCK CASTINE	SHEET NUMBER 4
STP-9720(00)X	PLANS	OF 10



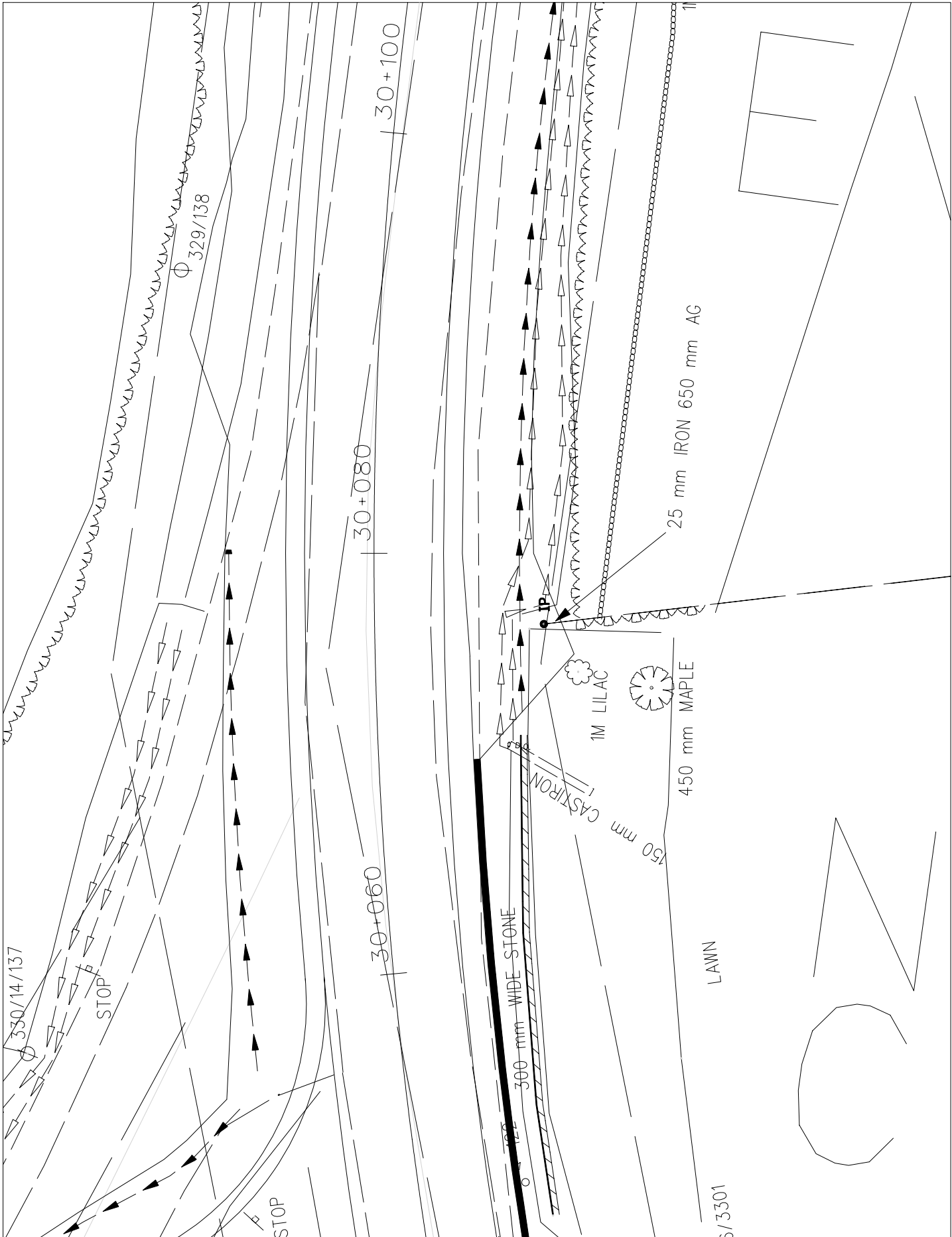
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	ROUTE 166A CASTINE HANCOCK	SHEET NUMBER 5
STP-9720(00)X	PLANS	OF 10



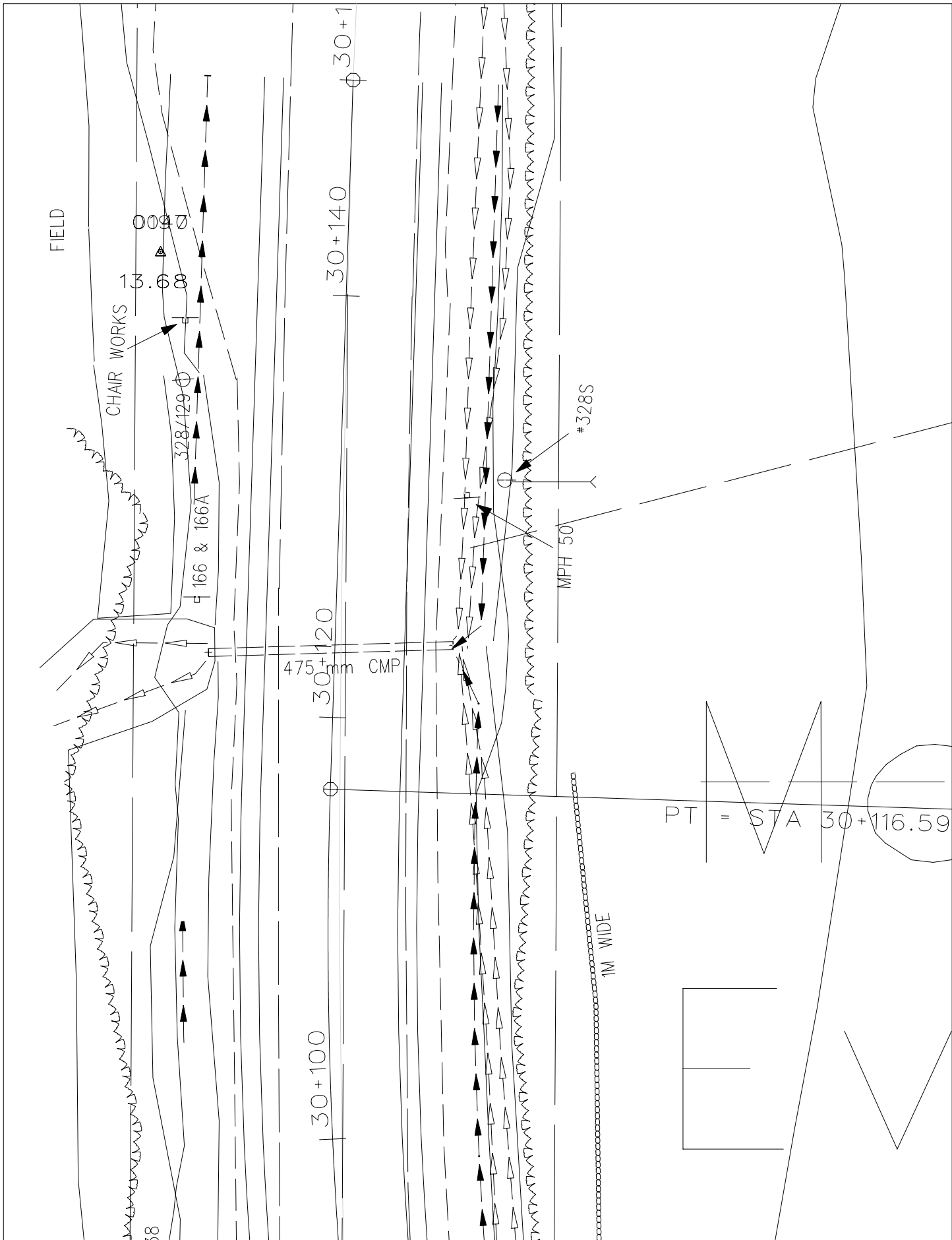
PLANS



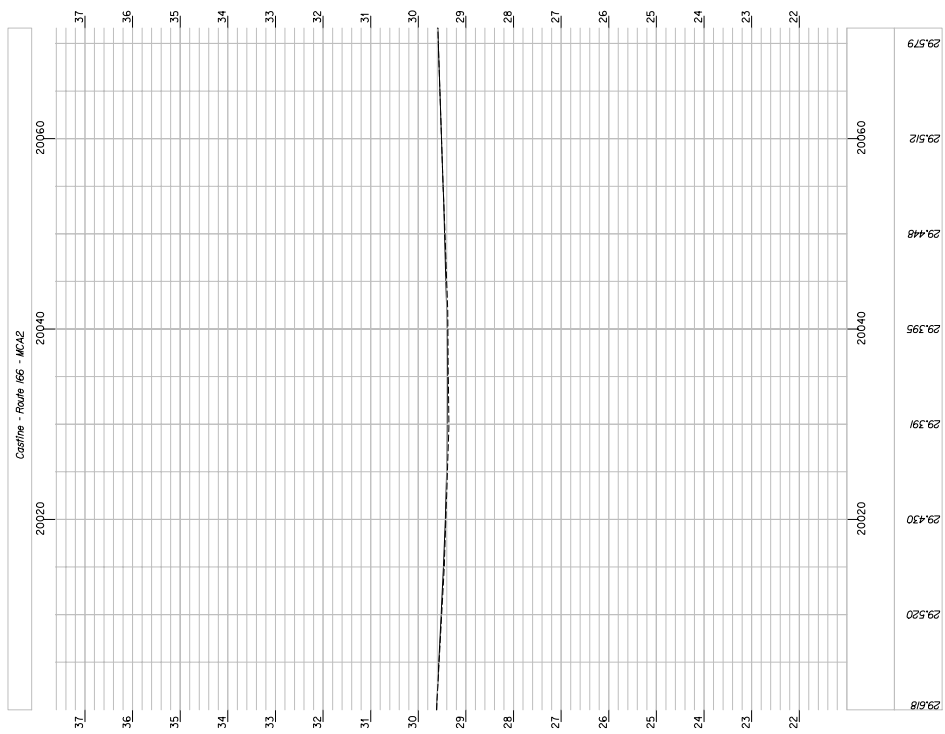




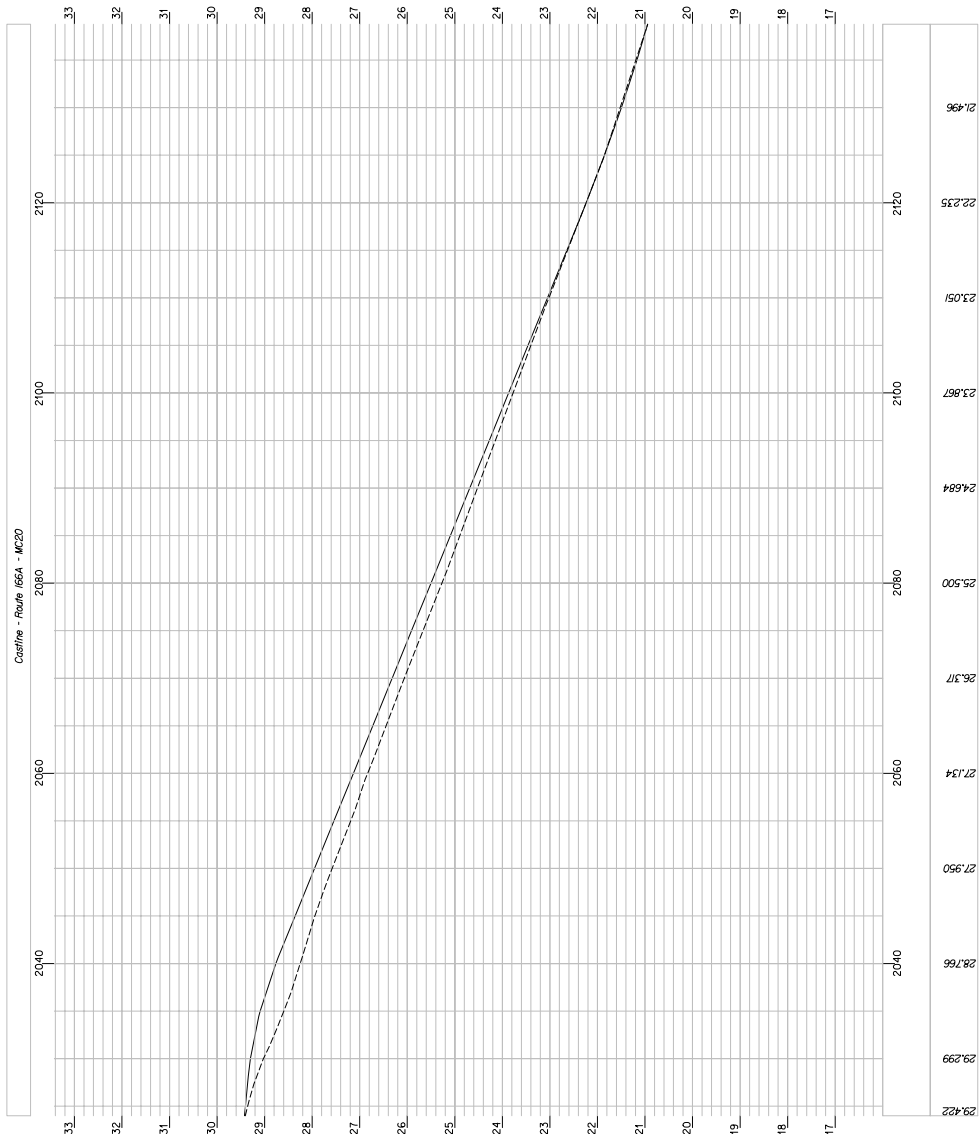
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	ROUTE 166 CASTINE HANCOCK	SHEET NUMBER 9
STP-9720(00)X	PLANS	OF 10



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	ROUTE 166 HANCOCK CASTINE	SHEET NUMBER 10
STP-9720(00)X	PLANS	OF 10



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	ROUTE 166 HANCOCK CASTINE PROFILE	SHEET NUMBER 1 OF 4
STP-9720(00)X		



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ROUTE 166A

CASTINE

HANCOCK

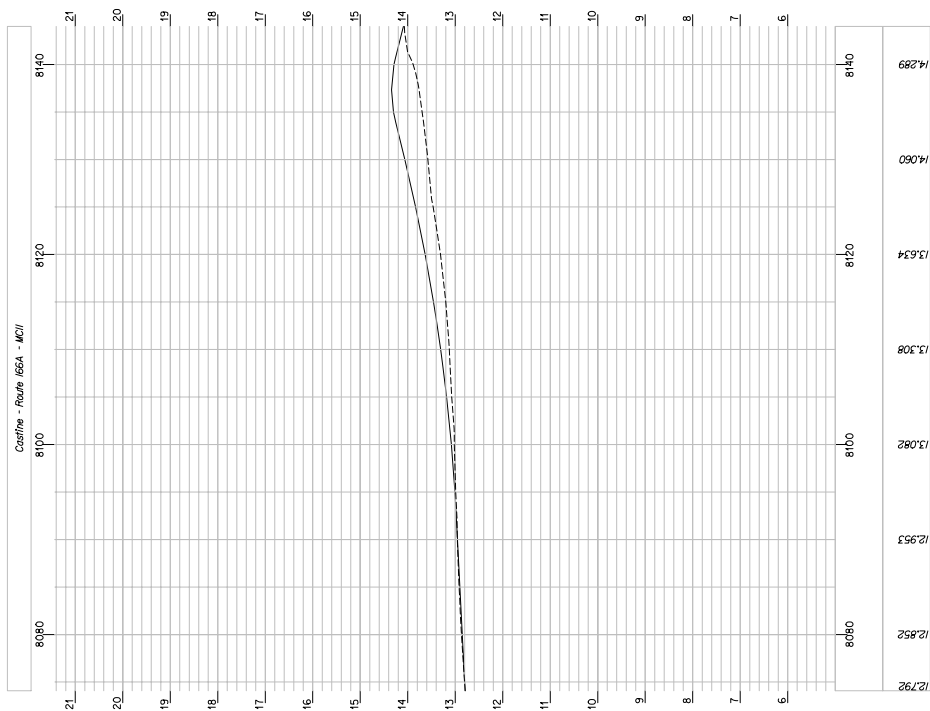
STP-9720(00)X

PROFILE

SHEET NUMBER

2

OF 4



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ROUTE 166A

CASTINE

SHEET NUMBER

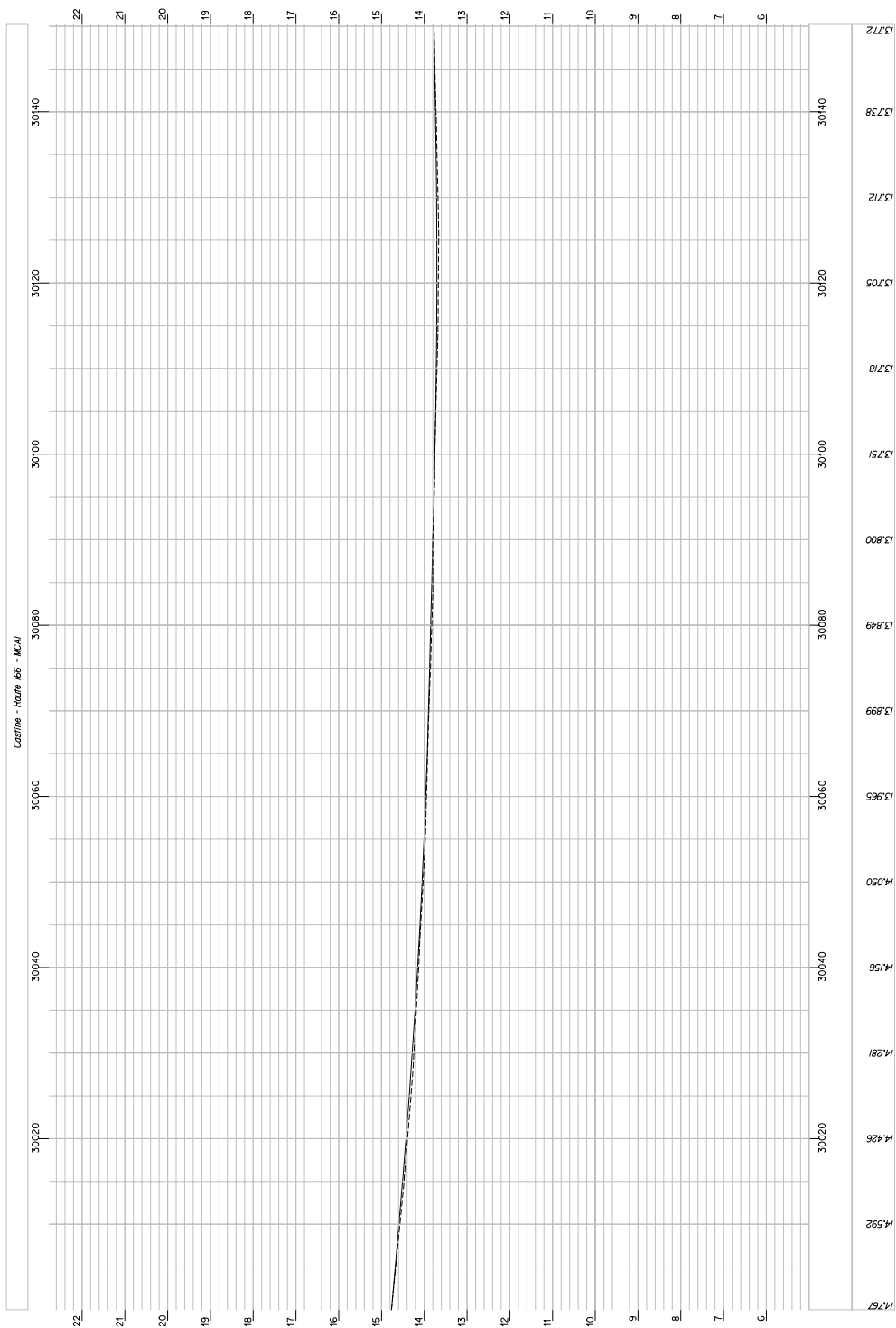
HANCOCK

3

STP-9720(00)X

PROFILE

OF 4



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ROUTE 166

CASTINE

HANCOCK

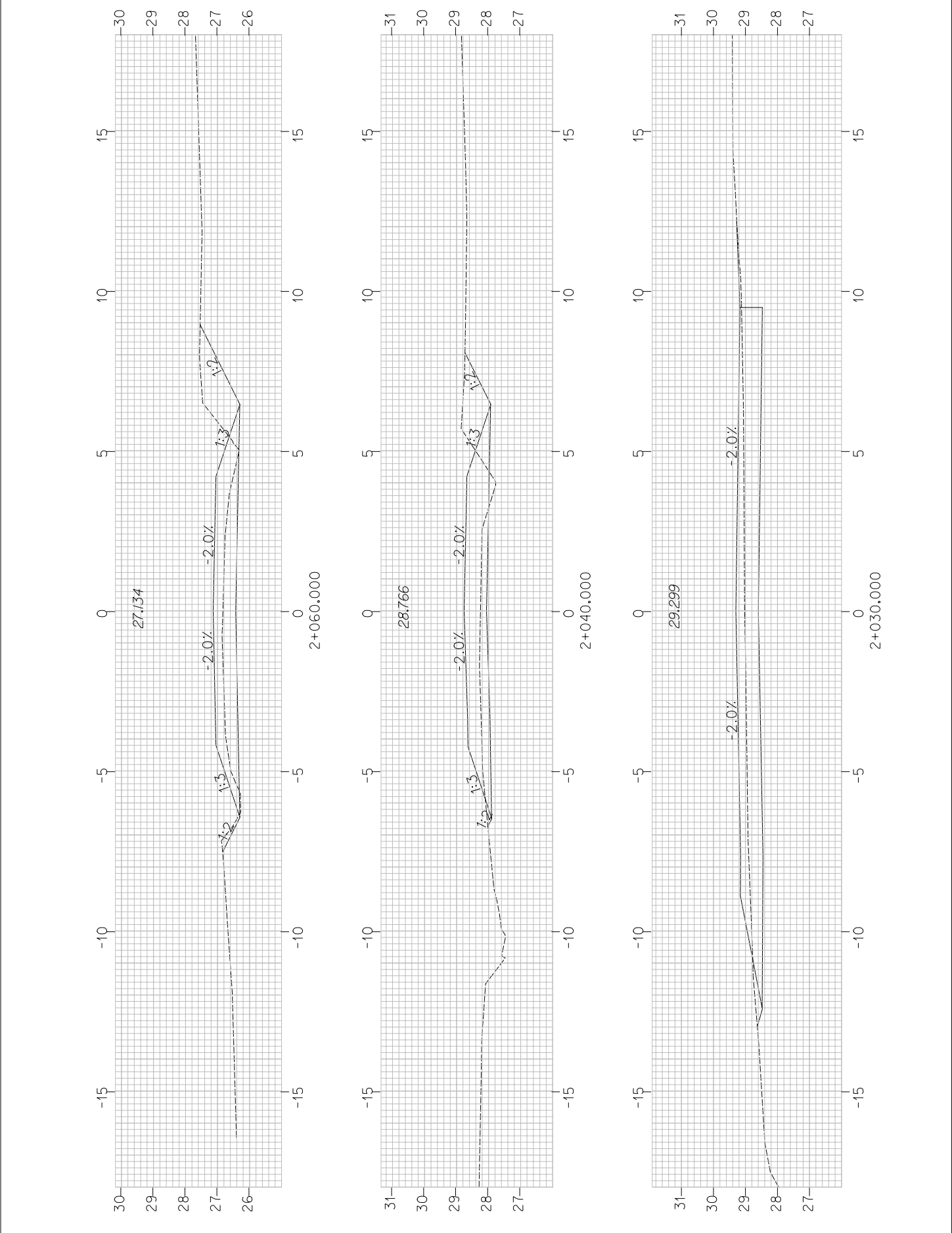
STP-9720(00)X

PROFILE

SHEET NUMBER

4

OF 4



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	ROUTE 166A HANCOCK	CASTINE	SHEET NUMBER
STP-9720(00)X	CROSS SECTIONS		1 OF 9

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-9720(00)X

ROUTE 166A
HANCOCK

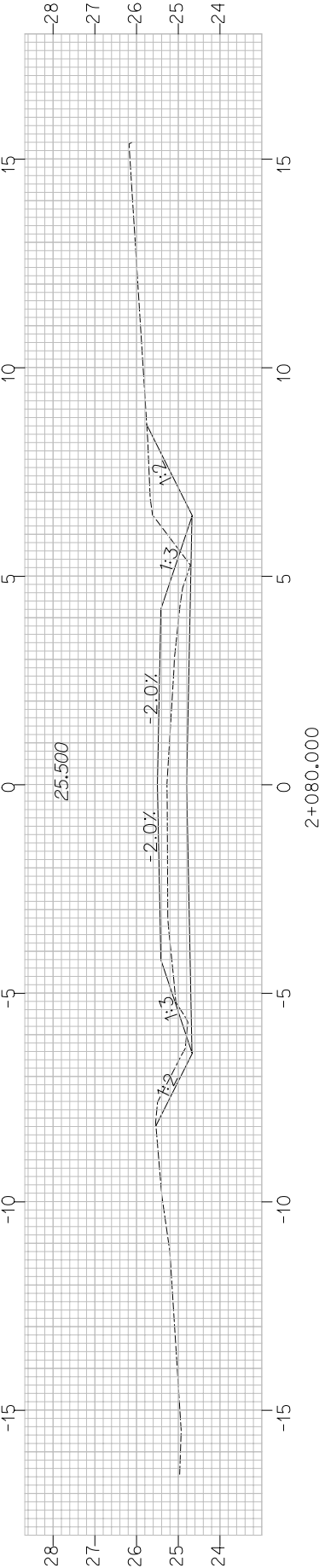
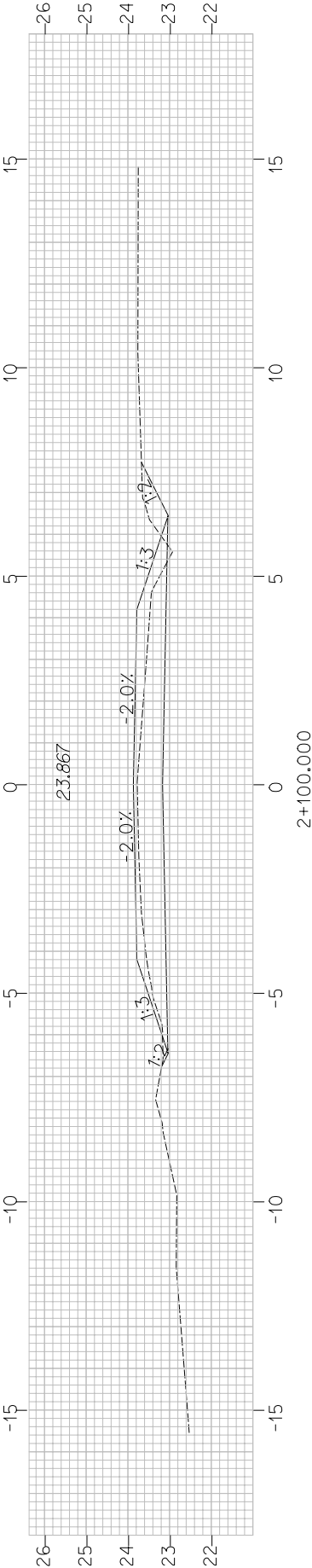
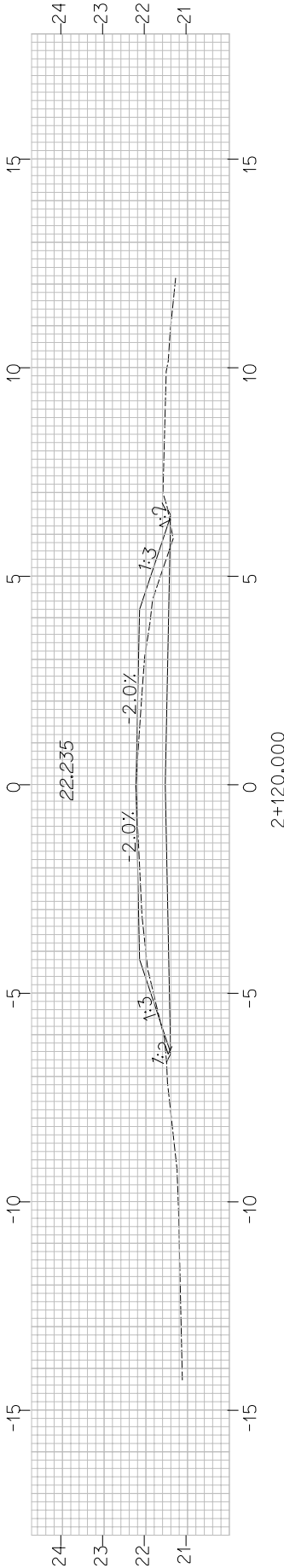
CROSS SECTIONS

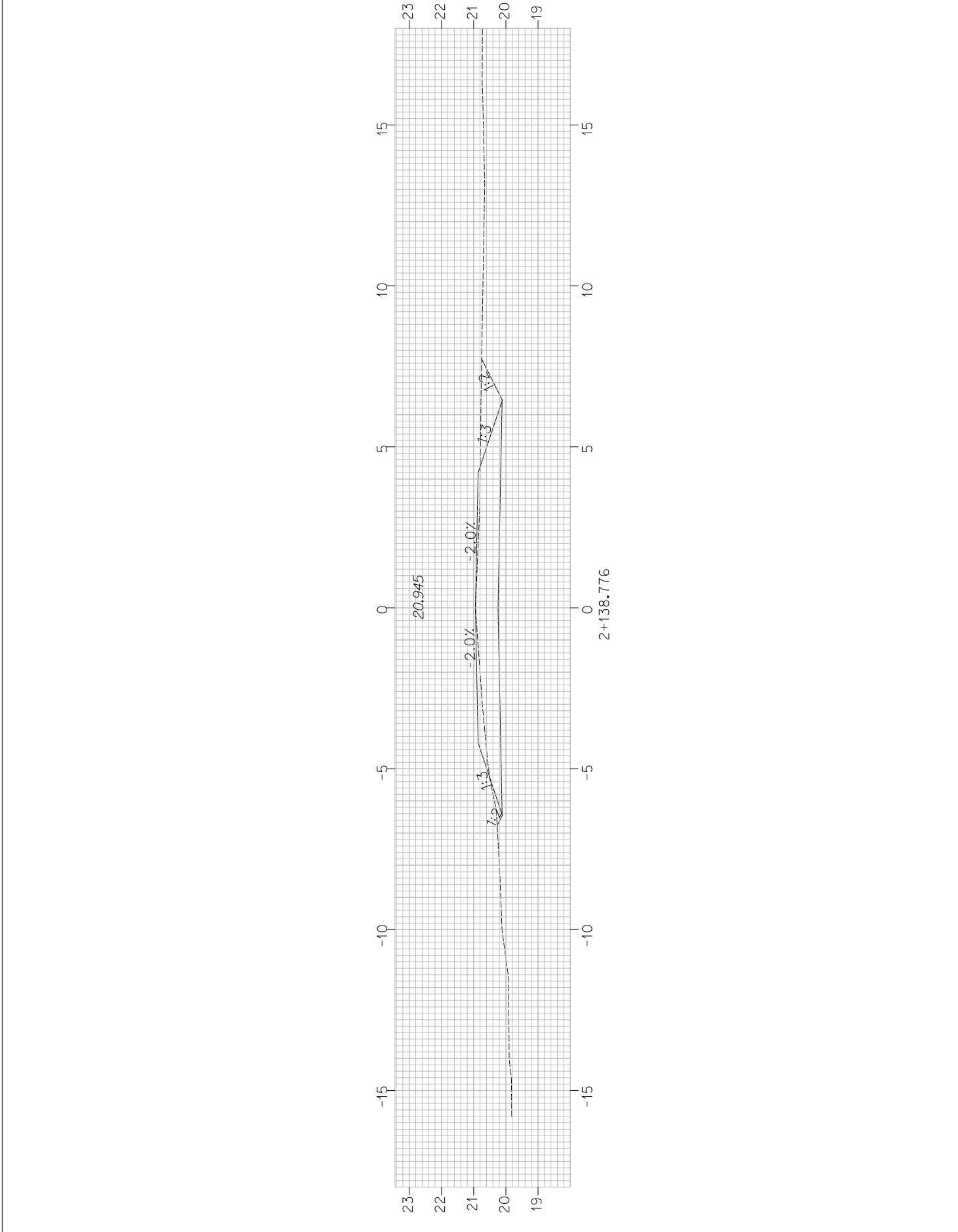
CASTINE

SHEET NUMBER

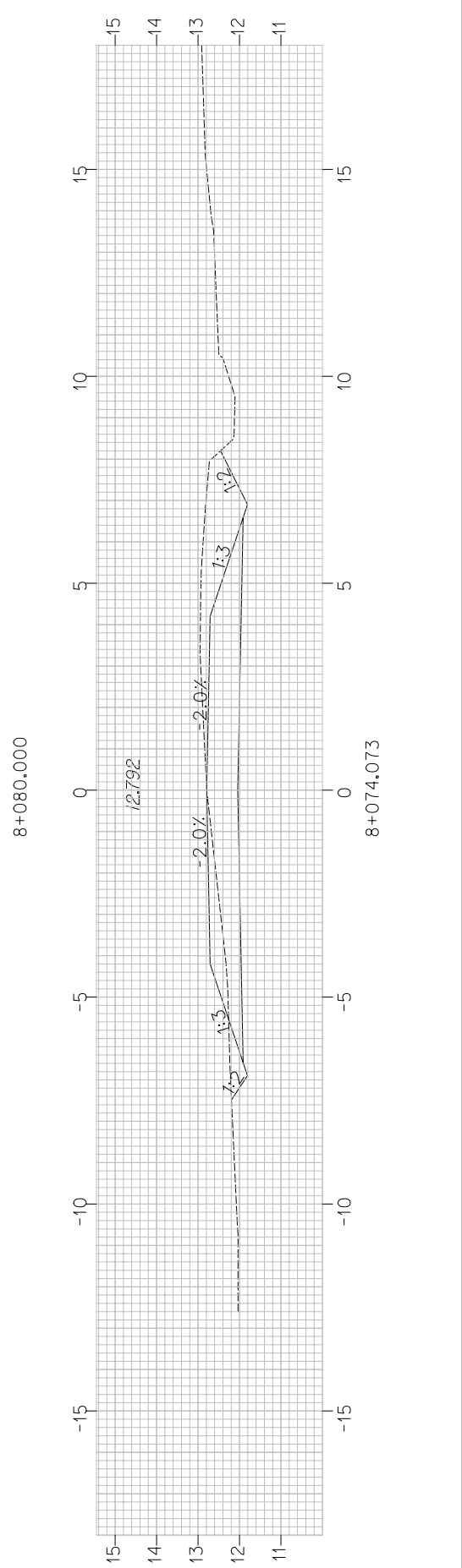
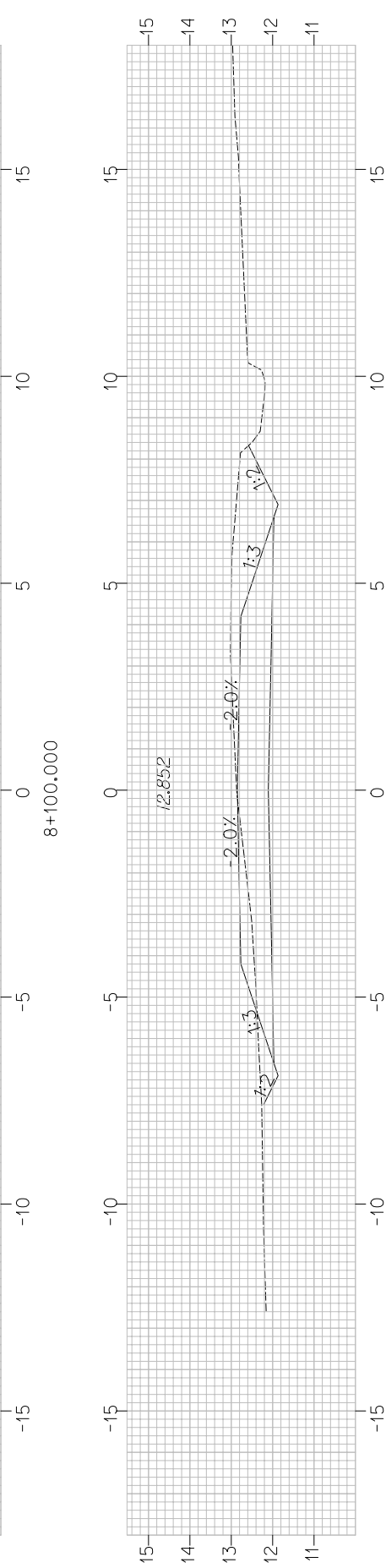
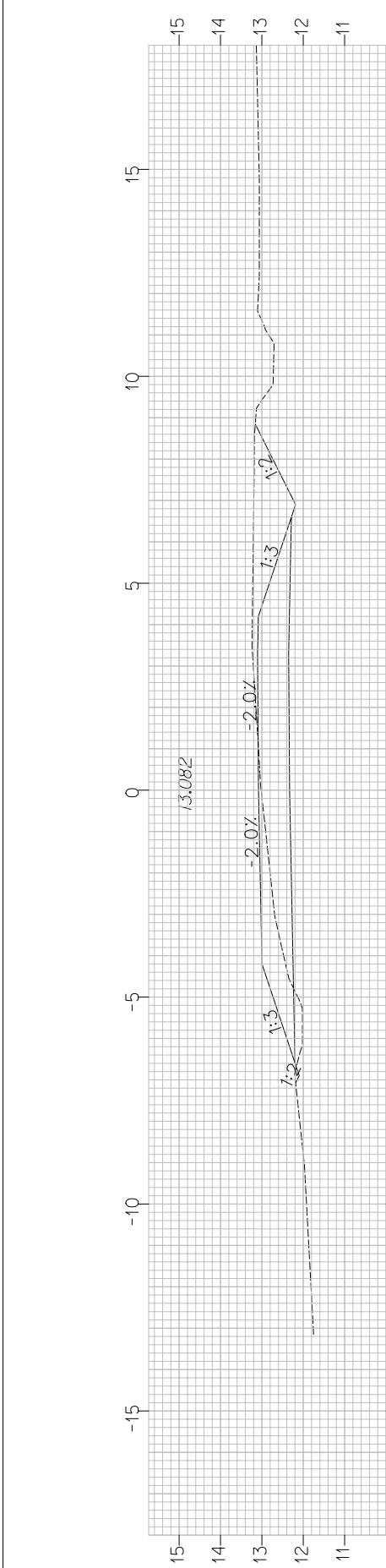
2

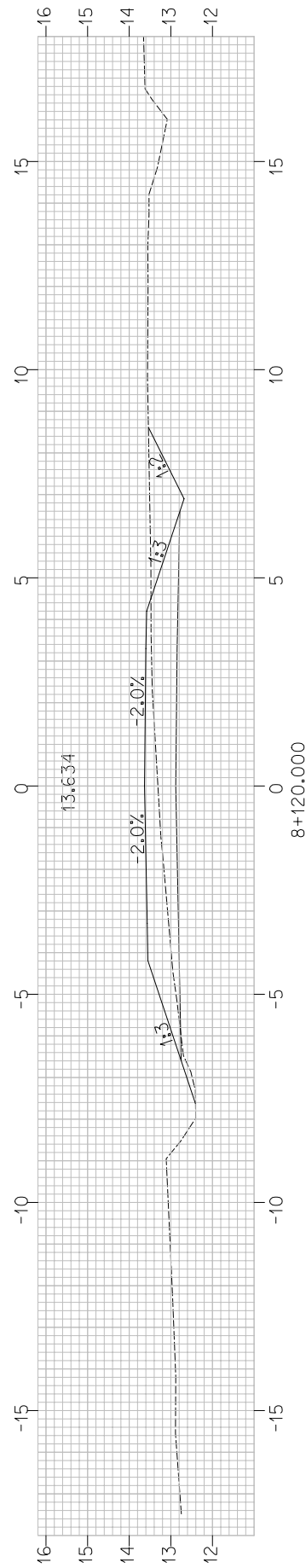
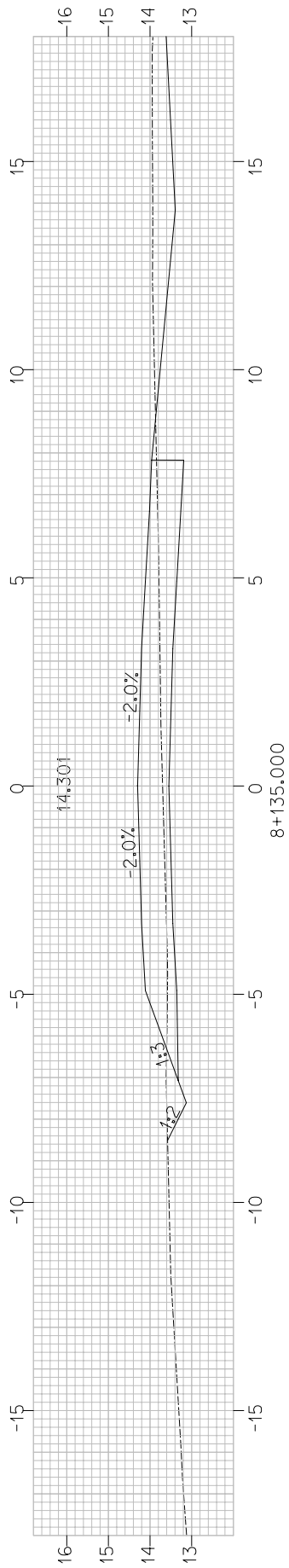
OF 9





<div>STATE OF MAINE</div> <div>DEPARTMENT OF TRANSPORTATION</div>	<div>ROUTE 166A</div> <div>CASTINE</div> <div>HANCOCK</div>	<div>SHEET NUMBER</div> <div>3</div>
<div>STP-9720(00)X</div>	<div>CROSS SECTIONS</div>	<div>OF9</div>





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

ROUTE 166A CASTINE
HANCOCK

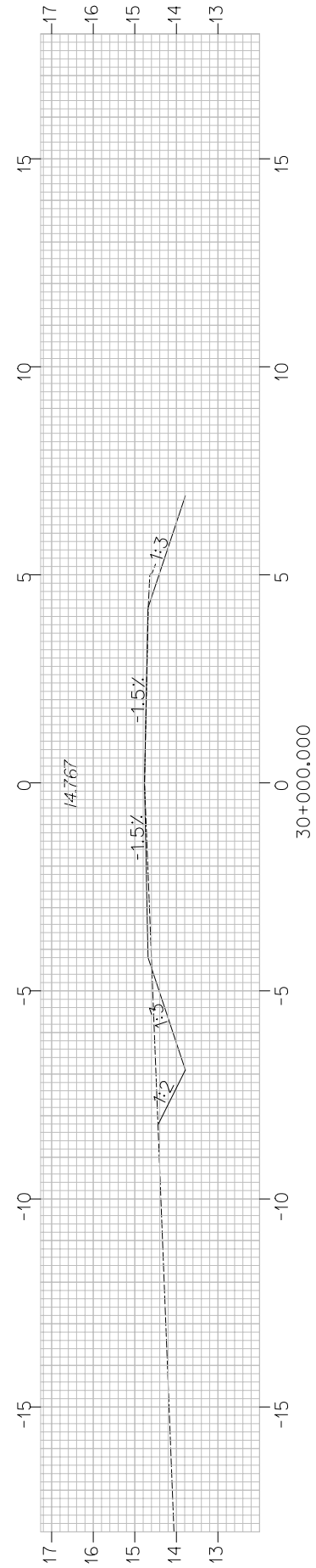
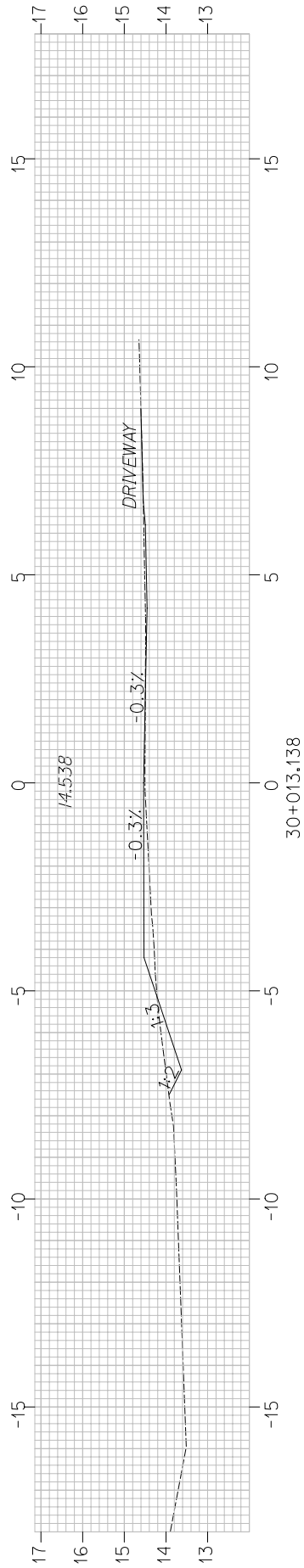
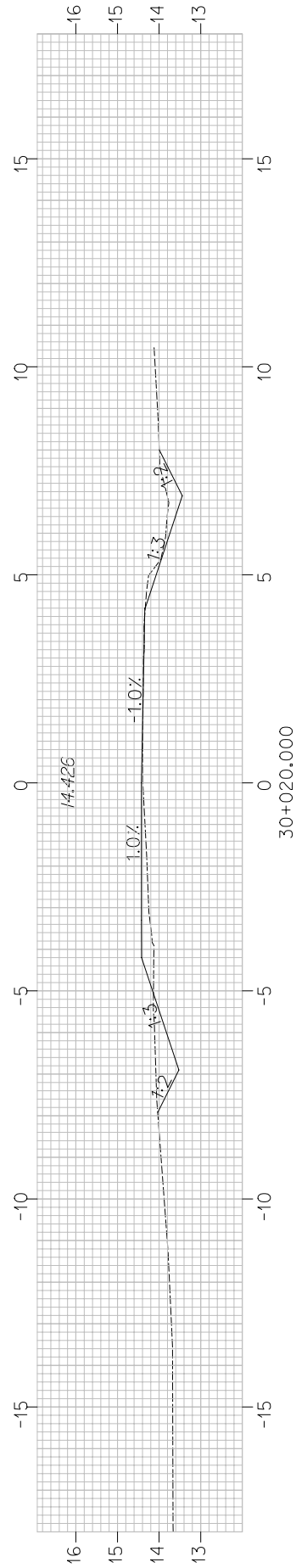
SHEET NUMBER

5

STP-9720(00)X

CROSS SECTIONS

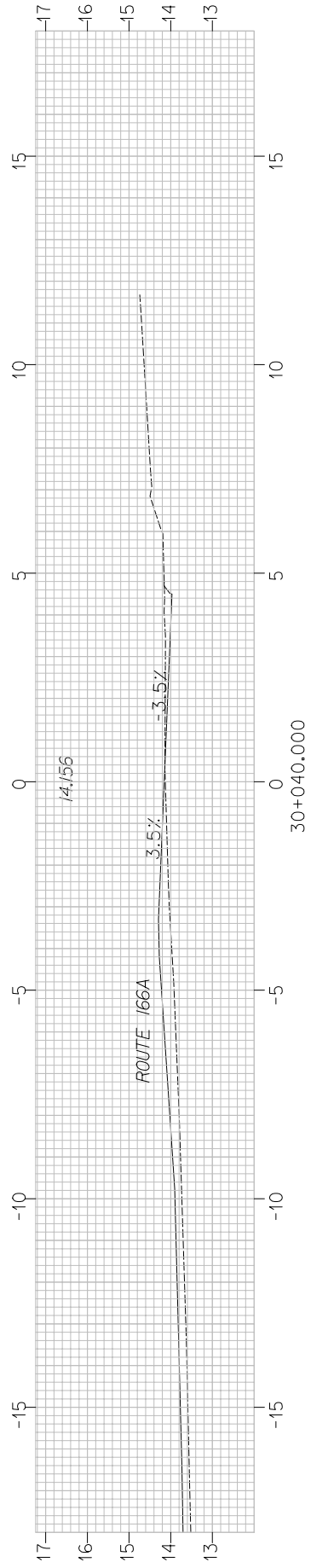
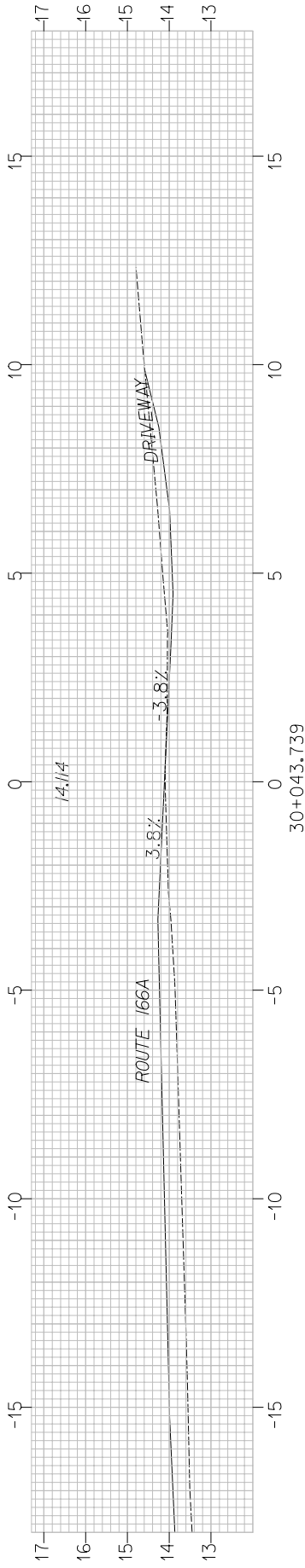
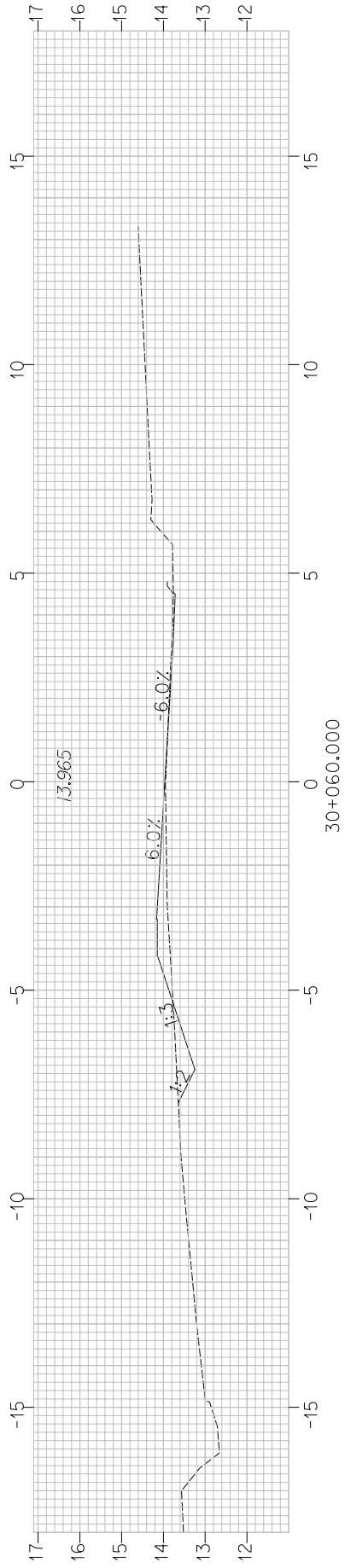
OF 9



SHEET NUMBER



OF9



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-9720(00)X

ROUTE 166
HANCOCK

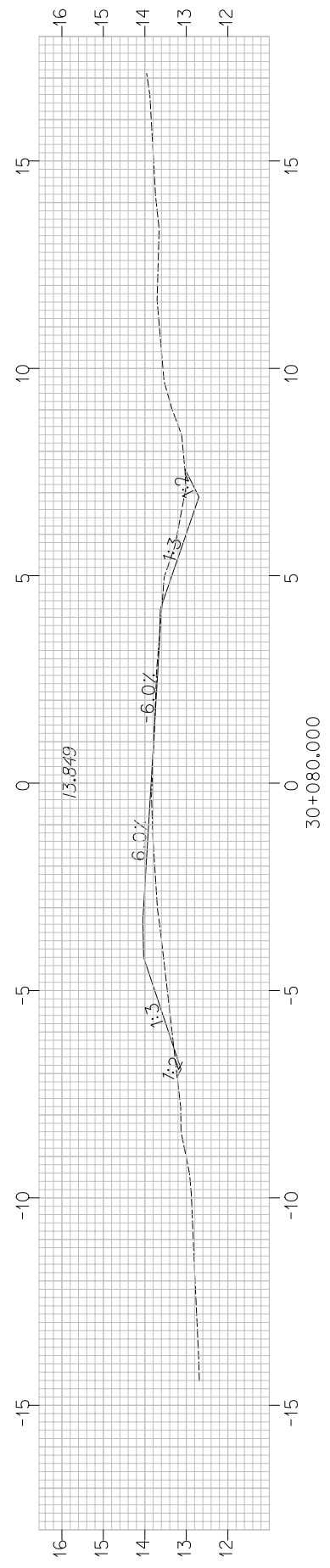
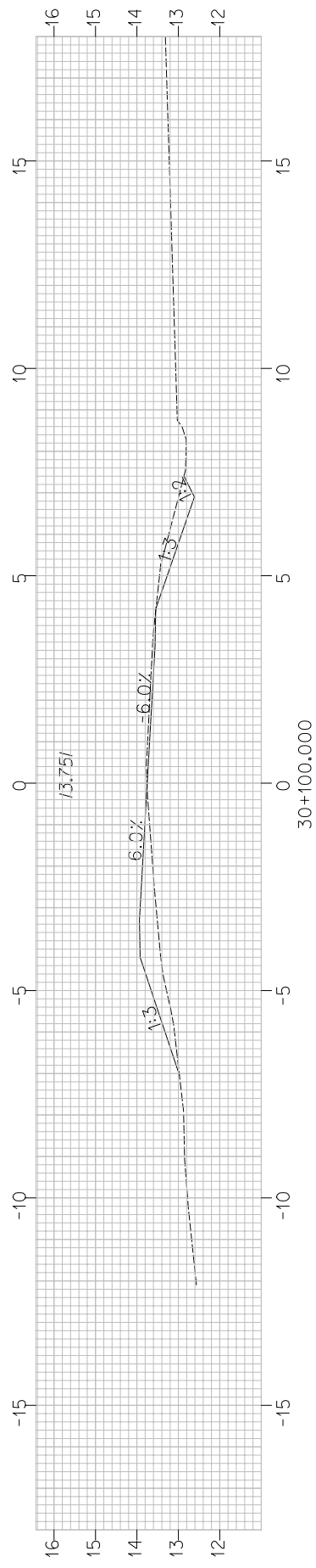
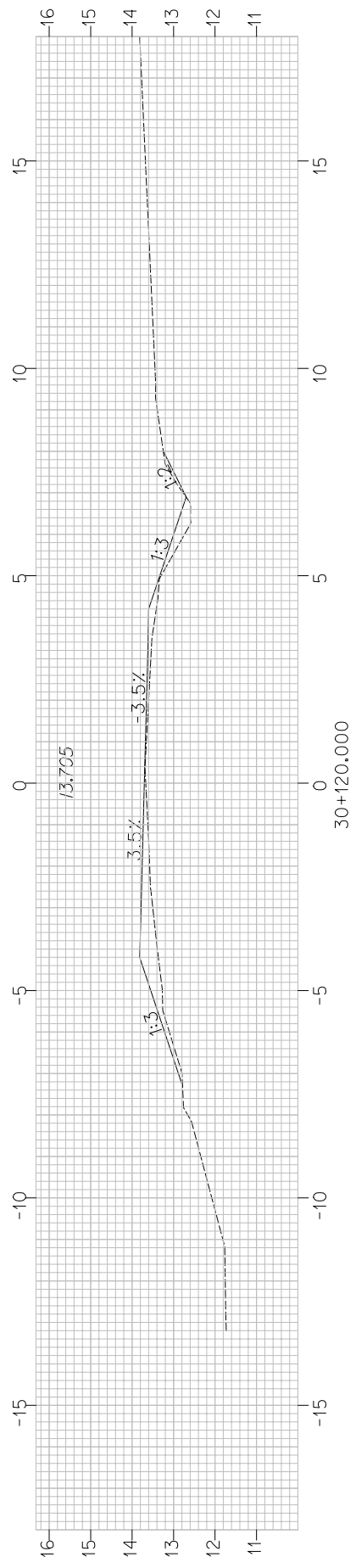
CROSS SECTIONS

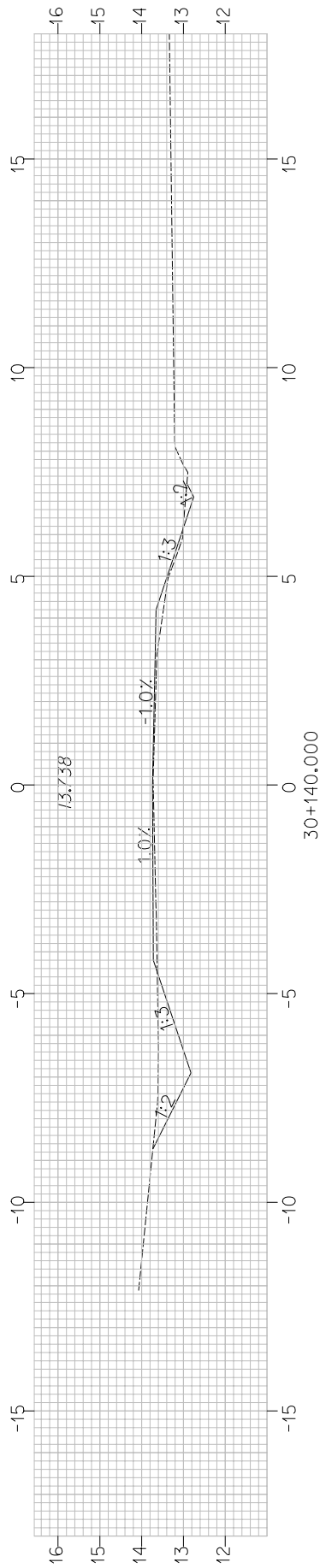
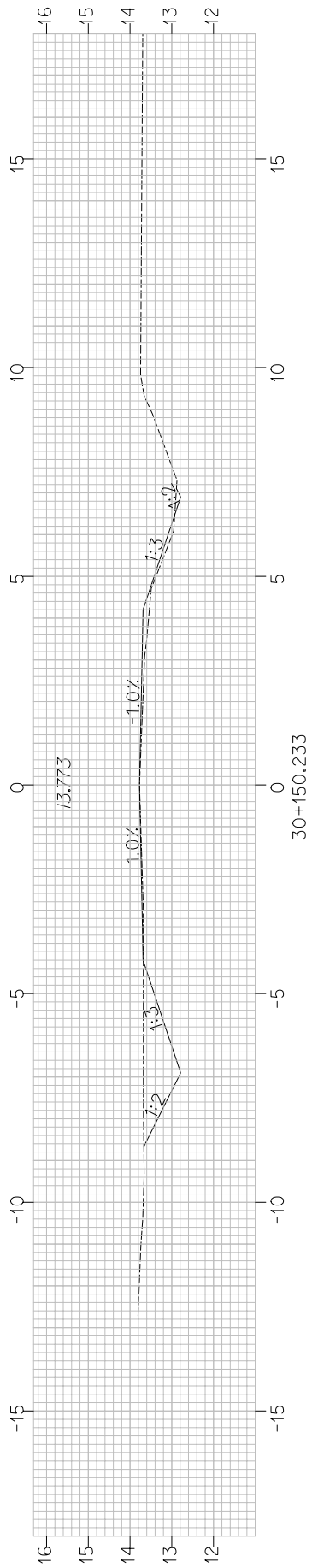
CASTINE

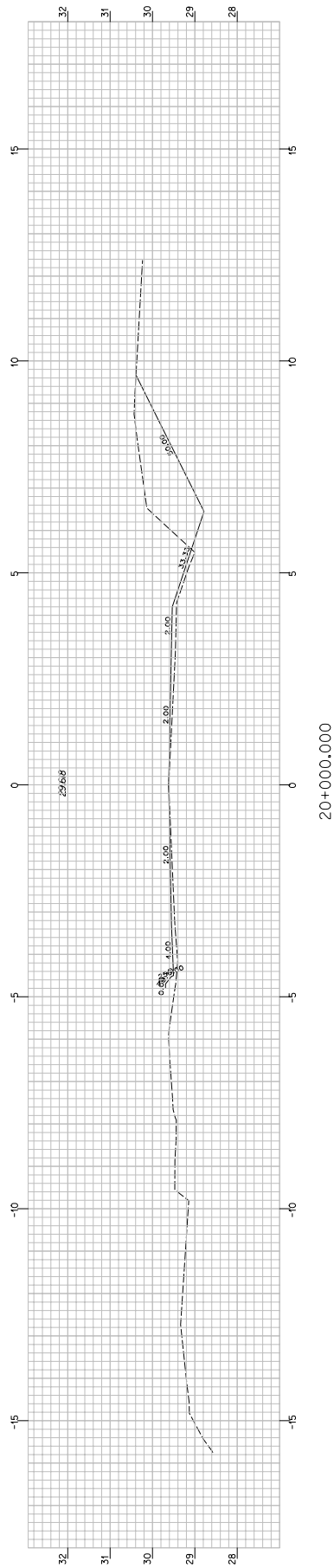
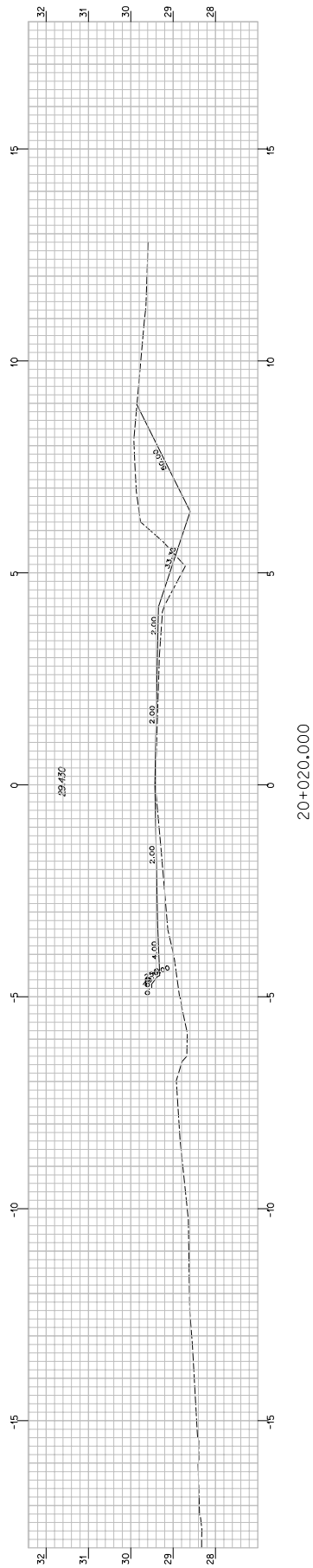
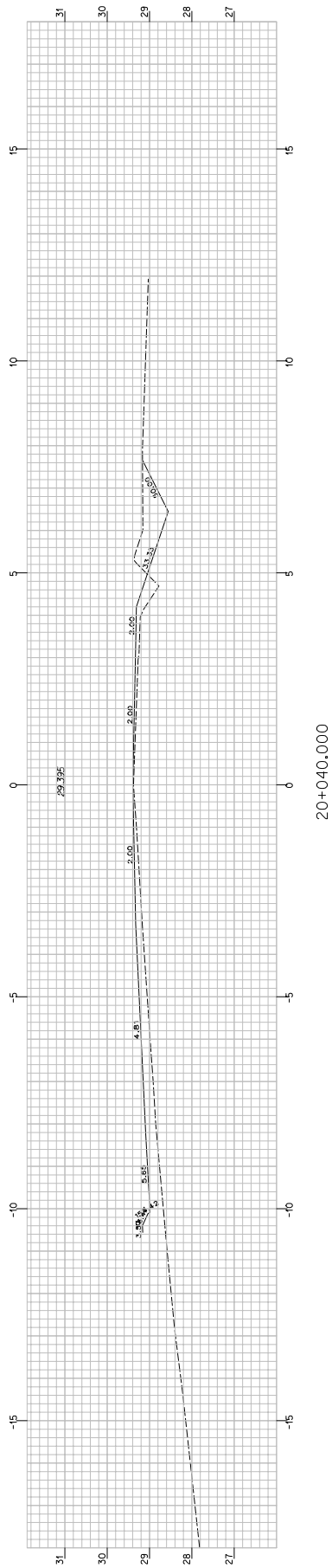
SHEET NUMBER

8

OF 9







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

009720.00

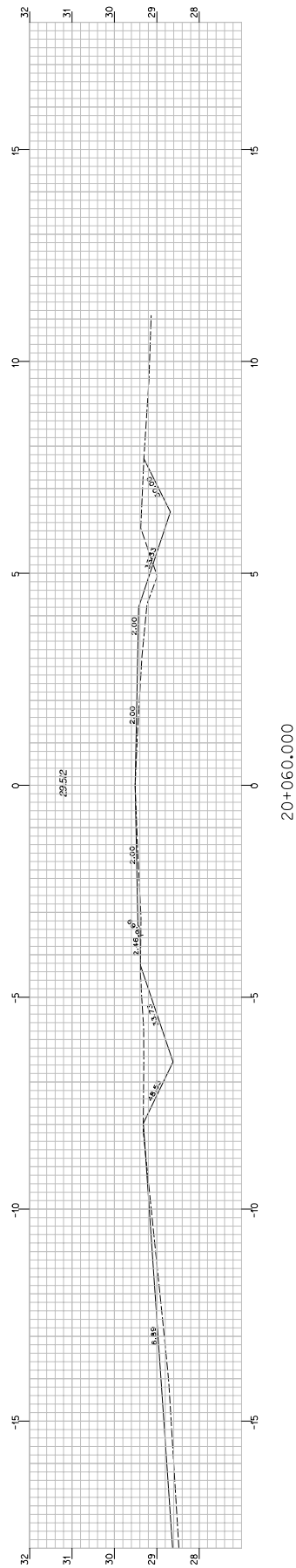
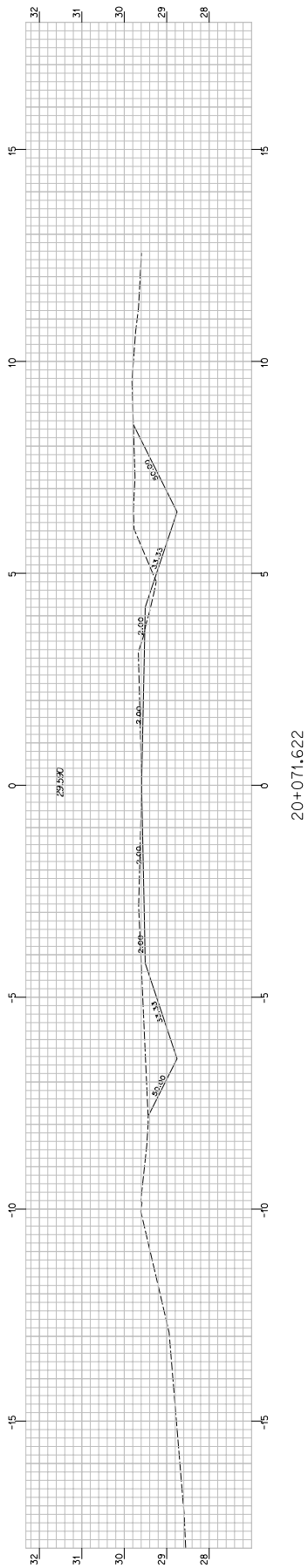
RTE 166/166A CASTINE-PENOBSCOT
HANCOCK

CROSS SECTIONS

SHEET NUMBER

1

OF2



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

RTE 166/166A CASTINE-PENOBSCOT
HANCOCK

009720.00

CROSS SECTIONS

SHEET NUMBER

2

OF2

**Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP**

Pole #	<u>Topo - Left</u>	Project Stationing (metric)	<u>Topo - Right</u>	Pole #
#433	Electric Pole	3+813		
		3+510	Electric Pole	#440/33
		3+328	Electric Pole	3444/29
		3+121	Electric Pole	#449/24
		2+943	Electric Pole	#453/11/20
		2+727	Electric Pole	#458/11/15
		2+506	Electric Pole	#463/11/10
		2+313	Electric Pole	#467/4
#473/11/1	Electric Pole	2+148		
	Junction Route 166A	2+024		
		1+954	Electric Pole	#478/ 4 1/2
		1+681	Electric Pole	#482 1/2
#484- 1/4	Electric Pole	1+434		
		1+183	Electric Pole	#264/756
		1+003	Electric Pole	#759/191
		0+871	Electric Pole	#762/494
		0+716	Electric Pole	#503/766
		0+590	Electric Pole	#506
		0+496	Electric Pole	#508
		0+243	Electric Pole	#511
#522	Electric Pole	0+005		
	BEGIN PROJECT	0+000	BEGIN PROJECT	

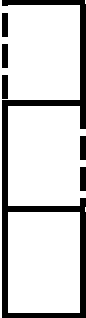
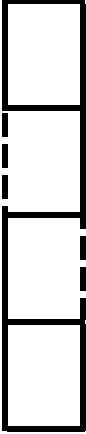
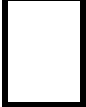
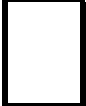
Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP

Pole #	<u>Topo - Left</u>	Project Stationing (metric)	<u>Topo - Right</u>	Pole #
		8+447	Stub Pole	#323S
		8+213	Stub Pole	#328S
		8+144	Junction Route 166	
		8+014	Electric Pole	#332/132
		7+827	Electric Pole	#11/130/334
		7+593	Electric Pole	#343/11/125
		7+394	Electric Pole	#11/120/347
		7+167	Electric Pole	#353/116
		6+989	Electric Pole	#357/113
		6+666	Electric Pole	#364/106
		6+407	Electric Pole	#369/11/100
		6+214	Electric Pole	#374/96
		6+043	Electric Pole	#378/92
		5+783	Electric Pole	#83/384
		5+531	Electric Pole	#390/11/80
		5+318	Electric Pole	#395/11/75
		5+070	Electric Pole	#399/11/67
		4+828	Electric Pole	#409/64
		4+699	Electric Pole	#412/61
		4+504	Electric Pole	#417
		4+252	Electric Pole	#423
		4+043	Electric Pole	#428/P114

Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP

Pole #	<u>Topo - Left</u>	Project Stationing (metric)	<u>Topo - Right</u>	Pole #
	END PROJECT	11+177	END PROJECT	
		11+143	Junction Route 175	
		11+038	Electric Pole	#265
		10+884	Stub Pole	#270S
		10+670	Stub Pole	#275S/273S
		10+423	Electric Pole	#187D/280
#181	Electric Pole	10+168		
#289/176	Electric Pole	9+949		
		9+686	Electric Pole	#297.01
		9+474	Electric Pole	#302
		9+209	Stub Pole	#307S
#312/155	Electric Pole	9+008		
#318/149	Electric Pole	8+708		

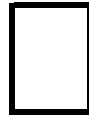
Pavement Marking Information

comments	left	right	station	comments
Route 166A (GAP)			3+689	
			3+448	
			3+296	
			2+033	
Wadsworth Cove Rd. (GAP)			2+023	
			1+733	
			1+533	
			1+375	
State Street (GAP)			1+198	
			1+184	
			0+584	
			0+572	
State Street (GAP)			0+562	
			0+552	
			0+010	
BEGIN PROJECT			0+000	

	9+838
	8+149
	8+139
	6+825
	6+608
	6+446
	5+888
	5+733
	5+722
	5+504
	5+480
	5+300
	5+282
	5+002
	4+465
	4+209
	3+689

Route 166 (GAP)

END PROJECT

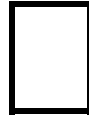


11+177

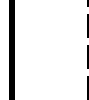
11+153

Route 175 (GAP)

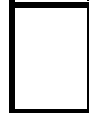
11+143



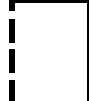
10+992



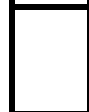
10+788



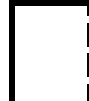
10+716



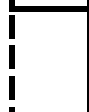
10+499



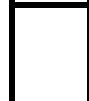
10+459



10+267



10+050



10+032



9+838

Construction Notes

201.11 CLEARING

LEFT				WIDTH (m)	RIGHT				WIDTH (m)
Sta.	1+874	to	1+954	4.0	Sta.	0+730	to	0+800	3.3
						1+715	to	1+750	2.0
						3+684	to	3+700	1.5
						3+875	to	3+890	1.5
						3+950	to	3+960	1.5

201.23 REMOVING SINGLE TREE TOP ONLY

Sta.	LEFT	SIZE (mm)	TYPE	OFFSET (m)
	2+548	600	Fir	6.1
	3+616	450	Oak	6.0
	3+636	500	Oak	5.5
	5+722	300	Ash	6.0
	6+204	450	Hickory	5.7
	6+575	700	Birch	4.4
	6+698	400	Poplar	6.1
	6+699	750	Pine	6.0
	6+705	375	Ash	6.2
	6+719	450	Oak	6.3
	7+394	600	Pine	5.5
	7+495	600	Oak	6.0
	7+509	600	Maple	6.3
	7+514	450	Maple	6.3
	7+522	450	Maple	6.5
Sta.	RIGHT	SIZE (mm)	TYPE	OFFSET (m)
	1+790	400	Spruce	7.0
	1+973	750	Ash	6.5
	3+625	500	Fir	5.5
	3+739	450	Birch	5.5
	3+835	600	Pine	5.5
	5+146	400	Birch	6.0
	5+653	750	Maple	4.8
	6+587	450	Maple	5.2
	6+616	450	Birch	6.5
	6+624	600	Birch	5.2
	6+701	450	Poplar	5.8

201.24 REMOVING STUMP

Sta.	LEFT	SIZE (mm)	TYPE	OFFSET (m)
	2+548	600	Fir	6.1
	3+616	450	Oak	6.0
	3+636	500	Oak	5.5
	5+722	300	Ash	6.0
	6+204	450	Hickory	5.7
	6+575	700	Birch	4.4
	6+698	400	Poplar	6.1

Construction Notes

201.24 REMOVING STUMP (con't)

	LEFT	SIZE (mm)	TYPE	OFFSET (m)
Sta.	6+699	750	Pine	6.0
	6+705	375	Ash	6.2
	6+719	450	Oak	6.3
	7+394	600	Pine	5.5
	7+495	600	Oak	6.0
	7+509	600	Maple	6.3
	7+514	450	Maple	6.3
	7+522	450	Maple	6.5
	RIGHT	SIZE (mm)	TYPE	OFFSET (m)
Sta.	1+790	400	Spruce	7.0
	1+973	750	Ash	6.5
	3+625	500	Fir	5.5
	3+739	450	Birch	5.5
	3+835	600	Pine	5.5
	5+146	400	Birch	6.0
	5+653	750	Maple	4.8
	6+587	450	Maple	5.2
	6+616	450	Birch	6.5
	6+624	600	Birch	5.2
	6+701	450	Poplar	5.8

202.127 REMOVE EXISTING BITUMINOUS PAVEMENT

	FULL WIDTH		
Sta.	1+720	to	1+880
	2+050	to	2+159
	2+290	to	2+590
	2+670	to	2+870
	3+230	to	3+290
	4+971	to	5+260
	6+060	to	6+400
	7+804	to	7+844
	7+894	to	8+144
	30+000	to	30+150

NOTE: Pavement to be ground up and stockpiled to be used ahead of the C.I.P. recycle train.

202.203 PAVEMENT BUTT JOINTS

	LOCATION		
Sta.	0+010	to	0+020
	11+141	to	11+159
	11+159	to	11+177
	20+060	to	20+073
	30+000	to	30+017
			Begin Project
			End Project
			End Project
			Route 166
			Route 166

NOTE: 24 Drives and 3 side roads included.

Construction Notes

203.2001 COMMON EXCAVATION - PLAN QUANTITY

FULL CONSTRUCTION AREA				LOCATION
Sta.	2+044	to	2+159	Full Width
	2+290	to	2+590	Full Width
	3+230	to	3+290	Full Width
	4+971	to	5+029	Full Width
	8+074	to	8+144	Full Width

NOTE: A 1:15 taper required in and out of full construction areas.

203.21 ROCK EXCAVATION

NOTE: To be used in Underdetermined Locations as directed by Resident.

211.20 INSLOPE EXCAVATION

LEFT				RIGHT			
Sta.	1+009	to	1+077	Sta.	0+727	to	0+850
	2+866	to	2+897		0+863	to	0+917
	5+214	to	5+252		1+024	to	1+083
	6+087	to	6+155		1+180	to	1+225
	6+164	to	6+206		1+357	to	1+635
	6+280	to	6+310		2+215	to	2+267
	6+423	to	6+449		2+278	to	2+299
	6+450	to	6+461		2+609	to	2+629
	6+523	to	6+546		2+673	to	2+691
					2+700	to	2+716
					5+380	to	5+429
					5+490	to	5+550
					5+819	to	5+855
					5+947	to	6+030
					7+622	to	7+660

NOTE: Excavation will be used to fill all slopes to a depth of 600 mm (subgrade) below finish grade. Gravel will be used to fill to finish grade.

211.30 DITCH EXCAVATION

LEFT				RIGHT			
Sta.	0+600	to	0+700	Sta.	0+189	to	0+333
	0+990	to	1+009		0+370	to	0+493
	1+077	to	1+121		0+497	to	0+519
	1+201	to	1+603		0+651	to	0+677
	1+614	to	1+668		0+686	to	0+727
	1+684	to	1+827		0+927	to	1+024
	1+837	to	1+953		1+225	to	1+357
	2+139	to	2+207		1+635	to	1+801
	2+212	to	2+365		1+814	to	1+840
	2+379	to	2+473		1+851	to	1+876
	2+511	to	2+518		1+888	to	1+978

Construction Notes

211.30 DITCH EXCAVATION (con't)

LEFT			RIGHT		
Sta.			Sta.		
	2+527	to 2+572		1+985	to 2+014
	2+580	to 2+632		2+147	to 2+160
	2+683	to 2+860		2+168	to 2+208
	2+897	to 3+293		2+299	to 2+412
	3+302	to 3+578		2+430	to 2+478
	3+586	to 3+636		2+498	to 2+554
	3+772	to 4+035		2+561	to 2+609
	4+044	to 4+074		2+629	to 2+641
	4+083	to 4+125		2+716	to 2+798
	4+136	to 4+166		2+806	to 2+830
	4+175	to 4+185		2+837	to 2+884
	4+248	to 4+275		2+899	to 2+988
	4+285	to 4+369		3+006	to 3+033
	4+378	to 4+443		3+045	to 3+062
	4+580	to 4+588		3+070	to 3+097
	4+597	to 4+614		3+117	to 3+245
	4+621	to 4+677		3+279	to 3+309
	4+938	to 5+214		3+317	to 3+396
	5+408	to 5+425		3+405	to 3+457
	5+435	to 5+464		3+461	to 3+489
	5+472	to 5+581		3+503	to 3+756
	5+588	to 5+620		3+763	to 3+809
	5+628	to 5+724		3+820	to 3+840
	5+810	to 5+833		3+857	to 3+984
	5+836	to 5+906		3+989	to 4+384
	5+917	to 6+058		4+397	to 4+476
	6+069	to 6+087		4+493	to 4+929
	6+206	to 6+215		4+935	to 5+380
	6+243	to 6+256		5+429	to 5+490
	6+259	to 6+280		5+550	to 5+628
	6+319	to 6+340		5+631	to 5+819
	6+349	to 6+401		5+855	to 5+947
	6+407	to 6+423		6+030	to 6+083
	6+461	to 6+523		6+095	to 6+163
	6+546	to 6+560		6+173	to 6+225
	6+689	to 6+762		6+240	to 6+304
	6+764	to 6+951		6+313	to 6+407
	7+087	to 7+132		6+418	to 6+433
	7+166	to 7+185		6+440	to 6+476
	7+227	to 7+280		6+504	to 6+539
	7+285	to 7+330		6+547	to 6+690
	7+394	to 7+508		6+698	to 6+908
	7+522	to 7+557		6+916	to 6+939
	7+566	to 7+614		6+947	to 7+038
	7+658	to 7+678		7+044	to 7+099
	7+702	to 7+720		7+109	to 7+140
	7+728	to 7+777		7+147	to 7+200

Construction Notes

211.30 DITCH EXCAVATION (con't)

LEFT			RIGHT		
Sta.			Sta.		
	8+037	to 8+074		7+204	to 7+323
	8+144	to 8+155		8+162	to 8+239
	8+455	to 8+495		8+245	to 8+381
				8+389	to 8+440
				8+446	to 8+463
				8+476	to 8+484
				8+490	to 8+647
				8+653	to 8+672
				8+683	to 8+711
				8+720	to 8+792
				8+803	to 8+954
				8+967	to 9+029
				9+036	to 9+243
				9+251	to 9+308
				9+321	to 9+323
				9+343	to 9+522
				9+545	to 9+620
				9+664	to 9+686
				9+717	to 9+735
				9+742	to 9+815
				9+827	to 9+853
				9+861	to 9+933
				9+939	to 10+062
				10+067	to 10+075
				10+079	to 10+084
				10+095	to 10+147
				10+156	to 10+234
				10+244	to 10+262
				10+271	to 10+408
				10+414	to 10+478
				10+486	to 10+495
				10+504	to 10+544
				10+556	to 10+624
				10+659	to 10+695
				10+704	to 10+774
				10+779	to 10+883
				10+807	to 10+885
				10+886	to 11+070
				11+086	to 11+127

NOTE: Excavation will be used to fill all slopes to a depth of 600 mm (subgrade) below finish grade in gravel fill areas and heavily broken down areas prior to placing subbase shoulder gravel.

Construction Notes

304.102 AGGR SUBBASE COURSE - GRAVEL
(PIT MEASURE)

FULL CONSTRUCTION AREAS				LOCATION
Sta.	2+044	to	2+159	Full Width
	2+290	to	2+590	Full Width
	4+971	to	5+029	Full Width
	8+074	to	8+144	Full Width

NOTE: A 1:15 taper required in and out of full construction areas.

GRAVEL SHIM FULL WIDTH				LOCATION
Sta.	1+720	to	1+880	Full Width (See Typical 10/11 & Gravel Fill Markups)
	2+670	to	2+870	Full Width
	3+230	to	3+290	Full Width
	5+030	to	5+260	Full Width
	6+060	to	6+200	Full Width
	6+220	to	6+400	Full Width
	7+804	to	7+894	Full Width
	30+000	to	30+150	Full Width

NOTE: Gravel shim on shoulders will be placed prior to doing Cold In Place Recycled Pavement so as to allow Cold In Place Recycled Pavement to be placed on shoulders.

NOTE: Excavation will be used to fill slopes to a depth of 600 mm (subgrade) below finish grade. Gravel will be used to fill to finish grade.

NOTE: As an alternate to Pit Section the Contractor may stockpile gravel (not to exceed two stockpiles) for measurements at a 20% reduction in volume.

ITEM 310.14 COLD IN PLACE RECYCLE

FULL WIDTH (including shoulders)				Existing pavement width is 6.7 m wide. CIP to be done to a depth of approximately 100 mm compacted of CIP over Mainline and 30 mm CIP over the gravel shoulders.
Sta.	0+572	to	1+720	
	1+880	to	2+024	
	2+139	to	2+290	
	2+590	to	2+670	
	2+870	to	3+230	
	3+290	to	4+971	
	5+260	to	6+060	
	6+400	to	7+804	
	20+044	to	20+060	
Route 166				

403.207 HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE

FULL WIDTH			DEPTH (mm)	
Sta.	1+200	to	3+290	60
	3+750	to	5+260	60
	5+850	to	7+875	75
	7+875	to	8+144	60
	20+044	to	20+060	60
	30+000	to	30+150	60
				Route 166
				Route 166

Construction Notes

Route 166 & 166A, CHIP

403.208 HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE

	FULL WIDTH		DEPTH (mm)	
Sta.	1+200	to 3+290	40	
	3+750	to 5+260	40	
	5+260	to 5+850	50	
	5+850	to 8+144	40	
	20+044	to 20+060	40	Route 166
	30+000	to 30+150	40	Route 166

403.210 HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE

	FULL WIDTH		DEPTH (mm)	
Sta.	0+010	to 0+572	40	
	0+572	to 1+200	30	
	3+290	to 3+750	35	
	8+144	to 11+159	30	Base
	8+144	to 11+177	30	Surface

403.211 HOT MIX ASPHALT - SHIM

	FULL WIDTH	
Sta.	0+010	to 0+572
	8+144	to 11+141

403.213 HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE

	FULL WIDTH		DEPTH (mm)
Sta.	0+572	to 1+200	45
	3+290	to 3+750	50

502.41 STRUCTURAL CONCRETE SUPERSTRUCTURE SLAB

	FULL WIDTH	
Sta.	7+844	to 7+854

NOTE: See typical 11/11 for details.**502.49 STRUCTURAL CONCRETE CURBS & SIDEWALKS**

	LEFT			RIGHT
Sta.	7+844	to	7+854	Sta. 7+844 to 7+854

NOTE: See typical 11/11 for details.**503.15 EPOXY COAT REINFORCING STEEL, PLACING**

STRAIGHT BARS			
MARK	QTY	LENGTH (mm)	LOCATION
S1600	134	10500	Slab Transverse
S1601	72	9900	Slab Longitudinal
C1600	10	9900	Curb Longitudinal

Construction Notes

Route 166 & 166A, CHIP

503.15 EPOXY COAT REINFORCING STEEL, PLACING (con't)

MARK	QTY	BENT BARS		TYPE	A	B	C	D
		LENGTH (mm)						
S1650	134	1225		S	-	300	225	700
S1651	134	2180		ST	250	650	375	260
MARK	E	F	G	H	O	R	LOCATION	
S1650	-	-	-	-	-	-	Edge of Slab	
S1651	395	-	250	-	400	-	Slab/Curb Vert.	

508.13 MEMBRANE WATERPROOFING

Lump Sum

603.16 375 mm CULVERT PIPE OPTION I

(Driveway pipes)

Sta.	LEFT	LENGTH (m)	Sta.	RIGHT	LENGTH (m)
	1+676	16		0+973	5
	1+832	10		1+882	12
	2+210	5		2+024	9
	2+372	14		2+143	9
	2+505	10		2+558	7
	2+626	15		2+608	15
	3+297	8		2+802	7.0
	3+583	7		2+891	12
	4+040	7		3+039	10
	4+130	11		3+107	18
	4+280	10		3+401	9
	4+451	15		3+760	5
	4+575	9		3+848	17
	5+430	10		6+168	9
	5+753	60		6+413	11
	6+063	10		6+490	28
	6+345	9		6+694	8
	6+564	7		7+104	10
	6+953	4		7+202	4
	7+519	6		7+327	8
	7+655	6		7+417	8
	7+880	15		7+815	7
	8+497	4		8+443	6
				8+470	13
				8+677	9
				8+798	11
				9+033	7
				9+315	13
				9+739	7
				9+857	8
				10+064	6
				10+152	9
				10+482	9
				10+550	12
				10+782	15
				11+078	16

Construction Notes

603.161 375 mm CORRUGATED METAL PIPE (Crosspipe extension)

	RIGHT	LENGTH (m)
Sta.	2+495	1.2

603.169 375 mm CULVERT PIPE OPTION III (Crosspipes)

	LENGTH (m)
Sta.	0+076
	11.6
	0+218
	12.2
	0+560
	12.2
	4+341
	14.0
	7+162
	15.2

603.17 450 mm CULVERT PIPE OPTION I (Driveway pipes)

	LEFT	LENGTH (m)		RIGHT	LENGTH (m)
Sta.	1+609	9	Sta.	1+808	11
	2+523	9		1+845	11
	2+576	6		1+982	7
	3+640	5		2+164	8
	4+079	7		2+212	6
	4+171	8		2+488	20
	4+682	9		2+833	6
	5+468	8		2+996	17
	5+912	13		3+066	7
	6+401	7		3+276	5
	6+687	7		3+314	7
	7+282	5		3+496	14
	7+564	4		3+815	9
	7+724	8		3+987	5
	8+451	7		3+815	9
				3+987	5
				3+815	9
				3+987	5
				6+090	13
				6+309	9
				6+437	7
				6+543	8
				6+912	8
				7+041	6
				7+144	7
				7+391	10
				7+456	6
				8+385	8
				8+487	6
				8+650	7
				8+716	9
				8+961	13
				9+247	8
				9+543	6
				9+821	13

Construction Notes

603.17 450 mm CULVERT PIPE OPTION I (con't) (Driveway pipes)

Sta.	RIGHT	LENGTH (m)
	10+090	11
	10+239	10
	10+500	9
	10+700	9
	10+804	6

603.179 450 mm CULVERT PIPE OPTION III (Crosspipes)

Sta.	LENGTH (m)
1+200	15.8
1+352	14.0
1+494	13.4
2+026	12.5
3+198	14.6
4+067	15.2
8+918	14.6

603.191 600 mm CORRUGATED METAL PIPE (Crosspipe extensions)

Sta.	LEFT	LENGTH (m)	Sta.	RIGHT	LENGTH (m)
	2+264	1.2		2+902	1.2
	2+902	2.4		5+627	1.2

603.199 600 mm CULVERT PIPE OPTION III (Crosspipes)

Sta.	LENGTH (m)
0+750	20.1
0+920	17.3
0+980	15.7
5+840	15.2

603.219 900 mm CULVERT PIPE OPTION III (Crosspipes)

Sta.	LENGTH (m)
9+344	20

604.247 CATCH BASIN TYPE F5-C

Sta.	RIGHT	QTY. (EA)	OFFSET (m)
	0+076	1	4.3
	2+026	1	4.5

605.09 150 mm UNDERDRAIN TYPE B

Sta.	RIGHT	LENGTH (m)	OFFSET (m)
	1+998	56	4.5
	2+035	18	4.5
	20+057	26	4.5

Construction Notes

606.23 GUARDRAIL TYPE 3C - SINGLE RAIL

LEFT			RIGHT		
Sta.	1+109	to 1+120	Sta.	0+783	to 0+848
	1+158	to 1+180		1+164	to 1+172
	7+808	to 7+840		2+619	to 2+637
	7+858	to 7+869		2+619	to 2+637
	9+672	to 9+684		2+619	to 2+637
	9+672	to 9+684		7+821	to 7+840
				9+714	to 9+737

606.1722 BRIDGE TRANSITION - TYPE 2

LEFT			RIGHT		
Sta.	7+840	to 7+844	Sta.	7+840	to 7+844
	7+854	to 7+858		7+854	to 7+858

606.231 GUARDRAIL TYPE 3C - 4.5 m RADIUS & LESS

LEFT			RIGHT		
Sta.	7+804	to 7+808	Sta.	0+848	to 0+852
	9+668	to 9+672		2+683	to 2+687
	9+707	to 9+711		7+817	to 7+821
				9+737	to 9+741

606.232 GUARDRAIL TYPE 3C - OVER 4.5 m RADIUS

LEFT		
Sta.	1+180	to 1+184

606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL

LEFT		RIGHT	
Sta.	1+184	Sta.	0+852
	7+804		2+687
	9+668		7+817
	9+711		9+741

606.35 GUARDRAIL DELINEATOR POST

LEFT		PURPOSE		RIGHT		PURPOSE	
Sta.	1+109		GR	Sta.	0+013		Curb
	1+180		GR		0+189		Curb
	2+000		GR		0+339		Curb
	2+030		GR		0+370		Curb
	2+637		GR		0+772		GR
	2+664		GR		0+783		GR
	2+675		GR		0+848		GR
	4+185		Curb		1+080		GR
	4+241		Curb		1+091		GR
	4+489		Curb		1+172		GR

Construction Notes

606.35 GUARDRAIL DELINEATOR POST (con't)

Sta.	LEFT	PURPOSE	Sta.	RIGHT	PURPOSE
	4+549	Curb		2+608	GR
	5+274	Curb		2+619	GR
	5+408	Curb		2+683	GR
	6+215	Curb		3+240	Curb
	6+232	Curb		3+276	Curb
	6+574	Curb		7+460	Curb
	6+644	Curb		7+504	Curb
	6+958	Curb		7+776	Curb
	7+072	Curb		7+806	Curb
	7+185	Curb		7+821	GR
	7+215	Curb		7+855	GR
	7+361	Curb		9+677	GR
	7+376	Curb		9+688	GR
	7+808	GR		9+737	GR
	7+869	GR		30+030	Curb
	8+265	Curb		30+070	Curb
	8+287	Curb			
	8+549	Curb			
	8+590	Curb			
	9+672	GR			
	9+707	GR			

606.364 GUARDRAIL REMOVE, MODIFY & RESET TYPE - 3B

Sta.	LEFT		Sta.	RIGHT		
	1+120	to	1+158	1+091	to	1+164
	2+637	to	2+664	2+637	to	2+664
	9+684	to	9+707	9+688	to	9+714

Note: Modify to meet type 3C

606.47 SINGLE WOOD POST**NOTE:** To be used in Undetermined Locations.**606.74 GUARDRAIL TYPE - 3 - SINGLE RAIL BRIDGE MOUNTED**

Sta.	LEFT			Sta.	RIGHT		
	7+844	to	7+854		7+844	to	7+854

606.79 GUARDRAIL 350 FLARED TERMINAL

LEFT				RIGHT			
Sta.	1+098	to	1+109	Sta.	0+772	to	0+783
	2+626	to	2+637		1+080	to	1+091
	2+664	to	2+675		1+172	to	1+183
	7+869	to	7+880		2+608	to	2+619
					7+858	to	7+869
					9+677	to	9+688

Construction Notes

609.31 CURB TYPE 3

LEFT				RIGHT			
Sta.				Sta.			
	4+185	to	4+200		0+013	to	0+029
	4+209	to	4+241		0+033	to	0+055
	4+489	to	4+502		0+070	to	0+082
	4+509	to	4+549		0+099	to	0+143
	5+274	to	5+314		0+153	to	0+189
	5+322	to	5+343		0+339	to	0+370
	5+352	to	5+408		3+240	to	3+276
	6+215	to	6+232		7+460	to	7+504
	6+574	to	6+592		7+776	to	7+806
	6+597	to	6+614		30+030	to	30+041
	6+623	to	6+644		30+046	to	30+070
	6+958	to	6+971				
	6+977	to	7+012				
	7+021	to	7+045				
	7+053	to	7+072				
	7+185	to	7+215				
	7+361	to	7+376				
	8+265	to	8+287				
	8+549	to	8+564				
	8+575	to	8+590				
	20+000	to	20+023				

610.08 PLAIN RIPRAP

NOTE: Headwalls on Lt & Rt. side of Strut will receive RipRap (see Typical 11/11).

NOTE: All new inlets and outlets of crosspipes and underdrain will receive RipRap.
All existing crosspipes as directed by the Resident.

NOTE: Erosion control geotextile to be used under all RipRap

610.18 STONE DITCH PROTECTION

LEFT				RIGHT			
Sta.				Sta.			
	0+700	to	0+983		7+330	to	7+387
	7+870	to	8+035		7+396	to	7+413
					7+421	to	7+453
					7+530	to	7+622
					7+660	to	7+776
					7+818	to	7+824
					7+843	to	8+095

613.319 TEMPORARY EROSION CONTROL BLANKET

(1.2 m Wide)

NOTE: Erosion Control Blanket to be used in all ditches.

Construction Notes

652.39 WORK ZONE TRAFFIC CONTROL


NOTE: A detour, utilizing Route 166 for a time period not to exceed 21days, will be allowable for the work in the vicinity of the granite Strut, Station 7+849, on Route 166A. All work, materials, and labor needed but not limited to public notifications, extra signage and barriers, will be considered incidental to Item 652.39 WORK ZONE TRAFFIC CONTROL and no separate payment will be made.

Note: If the Contractor chooses this option, all details shall be included in the Contractor's Traffic Control Plan and subject to MDOT review and approval.

GENERAL NOTES

1. All joints between existing and proposed hot bituminous pavement shall be butted. Payment shall be made under Item 202.203 Pavement Butt Joint.
2. Construct a one-meter (1 m) Butt Joint at all paved drives and entrances unless otherwise directed by the Resident.
3. Where deemed necessary by the Resident, winter sand shall be removed from the edges of shoulders and placed in designated areas or disposed of. Payment will be made under the appropriate Pay Items.
4. All inslope and ditches in cut areas shall be regraded to 1:3, or flatter, as directed by the Resident.
5. All waste material not used on the project shall be disposed of off the project in waste areas approved by the Resident.
6. The Contractor shall place suitable existing material or other material acceptable to the Resident, on all pavement edges to allow no greater than a 30 mm to 40 mm drop-off (see Typical) and be graded to 1:3 or flatter. Payment to be incidental to the contract.
7. Any damage to the slopes caused by the Contractor's equipment, personnel, or operation shall be repaired to the satisfaction of the Resident. All work, equipment and materials required to make repairs shall be at the Contractor's expense.
8. A one-meter (1 m) paved apron shall be placed at gravel entrances, except woods and field entrances, unless otherwise directed by the Resident.
9. Item # 411.10, Untreated Aggregate Surface Course, may also meet the gradation requirements of item # 204.20, Add Shoulder Aggregate.
10. Any necessary cleaning of existing pavement prior to paving shall be incidental to the related paving items.
11. All existing paved shoulders and widenings to be resurfaced as directed by the Resident. Any snow-plow turns to be paved shall be paid under Item 403.210 Hot Mix Asphalt 9.5 mm.
12. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident.

13. Existing culverts and catch basins (Only those basins not adjusted, altered, and rebuilt) will be cleaned as directed by the Resident under the appropriate Hourly Rental Items.
14. The following shall be incidental to the 603 item(s):
 - Any cutting of existing culverts and/or connectors necessary to install new culvert replacements or extensions
 - All pipe excavation including any cutting and removal of pavement
 - All ditching at pipe ends
 - Furnishing, placing, grading, and compacting of any new gravel and/or fill material including Granular Borrow
 - Granular Borrow under the pipe shall meet the requirements for Underwater Backfill
 - All work necessary to connect to existing pipes
 - Flow lines may be changed by 0.5 m
 - Any necessary clearing of brush and small trees at culvert ends
 - Furnishing, placing, grading and compacting of any gravel to be used in Maintenance of Traffic Control including granular borrow.
15. As directed by the Resident, all existing Underdrain Outlets shall be located, cleaned out and ditched as required or replaced as necessary.
16. Two guardrail delineator posts will be installed at the leading end and one at the trailing end of each run of guardrail. One delineator post will also be installed at each underdrain outlet and at the beginning and end of each curb section.
17. Guardrail 350 Flared Terminals shall be installed concurrently with the placement of each section of beam rail.
18. Beam Guardrail which is removed on the project becomes the property of the Contractor.
19. Holes created by Guardrail removal will be filled and compacted with approved materials as directed by the Resident. Payment to be considered incidental to the guardrail items.
20. Where Curb Type 3 is installed under guardrail, the maximum reveal shall be 100 mm.
21. Backing up curb is incidental to the curb items. In areas where new bituminous curb is designated to replace existing, the removal of the old bituminous curb shall be incidental to the new curb. Provide a 600 mm snow shelf behind curb and then slope to grade with suitable existing material or material approved by the Resident. Payment shall be incidental the curb item.

22. No separate payment for Superintendent or Foreman will be made for the supervision of equipment being paid under appropriate rental items.
23. Trim all tree branches to 6 meters above pavement. Payment shall be made under labor and equipment rental items.
24. “Undetermined Locations”, as stated in the Construction Notes, shall be determined by the Resident.
25. Stations referenced in the Construction Notes are approximate.
26. All work shall be done in accordance with the Maine Department of Transportation’s Best Management Practices for Erosion Control & Sediment Control, January 2000.
27. The Contractor must exercise every reasonable precaution to prevent damage to Utility facilities or interruption to Utility services known to or discovered by the Contractor, whether or not shown in the project documents. Such precautions must include notice to Utility Companies before undertaking work that could damage Utility facilities. The Contractor must provide each Utility Company with notice at least three business days before commencing work.
28. All shoulders and slopes in full width gravel shim areas and shoulder gravel shim areas shall utilize ditch and inslope excavation to build subgrade to a depth of 600 mm below finish grade prior to placing gravel.
29. MDOT will final stripe the project. The Contractor is responsible for transferring the existing striping pattern to the surface course within 24 hours after paving. Payment to be incidental to the contract.
30. Shoulder gravel shim shall be placed prior to CIP.
31. As directed by the Resident, all existing Underdrain Outlets shall receive a 600 mm x 600 mm RipRap pad.
32. Preparation of the existing structure will be considered incidental to Item 502.41 Structural Concrete Superstructure Slab. 
33. No trees will be cut without prior permission from Resident.
34. The Contractor will be required to grade off approximately 100 mm of winter sand and other material prior to placing gravel on any shoulders. This shall be incidental to Item 304.102.

Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP

35. All pavement edges at driveways will be backed up using Item 304.102 Aggregate Subbase Course - Gravel (Pit Measure).
36. As an alternate to Pit Section the Contractor may stockpile (not to exceed two stockpiles) for sectioning at a 20% reduction in volume.

Existing Pavement Depths

Route 166 & 166A, CHIP

<u>STATION</u>	<u>DEPTH (mm)</u>
0+600	120
1+650	120
1+800	160
2+025	160
2+100	140
2+325	140
2+400	100
2+550	100
2+625	170
3+150	170
3+225	150
3+375	150
3+450	100
3+750	100
3+825	120
3+900	160
4+125	160
4+200	140
5+475	140
5+550	120
5+850	120
5+925	100
6+225	100
6+300	120
6+450	120
6+525	150
6+975	150
7+050	100
7+500	100
7+575	130
8+250	130
8+325	210
8+775	210
8+925	120
9+075	120
9+150	100
10+200	100
10+275	140
10+725	140
10+800	100

Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP

Gravel Markups

<u>Station</u>	<u>Depth (mm)</u>
1+720	0
1+770	300
TO	
1+840	300
1+880	0
2+670	0
2+715	300
2+760	0
2+800	300
2+870	0
3+230	0
3+260	300
3+294	0
6+060	0
6+135	300
6+200	0
TO	
6+220	0
6+300	300
TO	
6+340	300
6+400	0
7+804	0
7+824	225
7+844	450
7+845	200
TO	
7+853	200
7+854	450
7+874	225
7+894	0

PAVEMENT CROSS SLOPE INFORMATION (METRIC)

-2	0+000	-2	-2	2+040	-2
	TO			TO	
-2	0+500	-2	-2	2+100	-2
-2	0+520	0	-2	2+120	0.5
-2	0+540	2	-3	2+140	2.5
	TO		-4.7	2+160	4.7
-2	0+600	2		TO	
-2.5	0+620	2.5	-4.7	2+300	4.7
-5	0+640	5	-2.5	2+320	2.5
-5.7	0+660	5.7	0	2+340	0
	TO		2.5	2+360	-2
-5.7	0+800	5.7	5	2+380	-4
-3.5	0+820	3.5	5.7	2+400	-5.7
-1	0+840	1		TO	
1.5	0+860	-1.5	5.7	2+620	-5.7
4	0+880	-4	3.5	2+640	-4
5.4	0+900	-5.4	1	2+660	-2
	TO		-1.5	2+680	0
5.4	1+040	-5.4	-2	2+700	2
6	1+060	-6		TO	
	TO		-2	2+980	2
6	1+240	-6	0	3+000	0
4.5	1+260	-4.5	2.2	3+020	-2.2
3	1+280	-3	4.5	3+040	-4.5
	TO			TO	
3	1+440	-3	4.7	3+260	-4.7
1	1+460	-2	2.5	3+300	-2.6
-0.5	1+480	-2	0	3+320	-0.5
-2	1+500	-2	-1.9	3+340	1.6
	TO		-3.8	3+360	3.8
-2	1+620	-2		TO	
0	1+640	-2	-3.8	3+440	3.8
2	1+660	-2	-3.2	3+460	1.5
2.6	1+680	-2.6	-2.6	3+480	-0.5
	TO		-2	3+500	-2
2.6	1+760	-2.6		TO	
0.5	1+780	-2	-2	3+600	-2
-2	1+800	-2	0.5	3+620	-2
	TO		3	3+640	-3
-2	1+820	-2	3.4	3+660	-3.4
0.5	1+840	-2		TO	
2.6	1+860	-2.6	3.4	3+820	-3.4
	TO		1	3+840	-1
2.6	2+000	-2.6	-1.5	3+860	1.5
0.5	2+020	-2	-1.5	3+880	1.5
			-1.5	3+900	1.5

**Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP**

PAVEMENT CROSS SLOPE INFORMATION (METRIC)

-1	3+920	1	-2	5+620	-2
1.5	3+940	-1.5		TO	
3.5	3+960	-3.5	-2	5+720	-2
5.4	3+980	-5.4	0.5	5+740	-2
	TO		3	5+760	-3
5.4	4+140	-5.4	3.8	5+780	-3.8
3	4+160	-4.3		TO	
0.5	4+180	-3.1	3.8	5+960	-3.8
-2	4+200	-2	4.7	5+980	-4.7
	TO			TO	
-2	4+320	-2	4.7	6+160	-4.7
-2	4+340	0.5	2.5	6+180	-2.5
-3	4+360	3	0	6+200	-2
-3.4	4+380	3.4	-2	6+220	-2
	TO			TO	
-3.4	4+740	3.4	-2	6+320	-2
-3	4+760	1.7	-2	6+340	0.5
-2.5	4+780	0	-2.6	6+360	2.6
-2	4+800	-2		TO	
	TO		-2.6	6+580	2.6
-2	4+900	-2	-2	6+600	0.5
0	4+920	-2	-2	6+620	-2
2	4+940	-2		TO	
	TO		-2	7+060	-2
2	5+000	-2	-2	7+080	0
-0.5	5+020	0	-2	7+100	2
-1.7	5+040	1.7	-3.1	7+120	3.1
-3.4	5+060	3.4		TO	
	TO		-3.1	7+460	3.1
-3.4	5+100	3.4	-1	7+480	1
-1	5+120	1	1	7+500	-1
1.5	5+140	-1.5	3	7+520	-3
2	5+160	-2	4.7	7+540	-4.7
	TO			TO	
2	5+220	-2	4.7	7+780	-4.7
0	5+240	-2	2.5	7+800	-2.5
-2	5+260	-2	0	7+820	0
	TO		-2.5	7+840	2.5
-2	5+340	-2	-4	7+860	4
0.5	5+360	-2	-5.7	7+880	5.7
3	5+380	-3		TO	
3.4	5+400	-3.4	-5.7	8+120	5.7
	TO		-4	8+140	4
3.4	5+560	-3.4	-2	8+160	2
3	5+580	-3	0	8+180	0
0.5	5+600	-2	2	8+200	-2

Castine-Penobscot
PIN 9720.00
Route 166 & 166A, CHIP

PAVEMENT CROSS SLOPE INFORMATION (METRIC)

4.3	8+220	-4.3	2.7	9+960	-2.7
	TO			TO	
4.3	8+340	-4.3	2.7	10+120	-2.7
2	8+360	-2	1	10+140	-1
0	8+380	0	-1	10+160	1
-2	8+400	2	-2.5	10+180	2.5
-4.3	8+420	4.3	-4.8	10+200	4.8
	TO			TO	
-4.3	8+620	4.3	-4.8	10+360	4.8
-2	8+640	2	-3.4	10+380	2.4
-2	8+680	0	-2	10+400	0
-2	8+700	-2	-2	10+420	-2
	TO			TO	
-2	8+720	-2	-2	10+560	-2
0	8+740	-2	0	10+580	-2
2.5	8+760	-3.4	2	10+600	-2
4.8	8+780	-4.8	4.3	10+620	-4.3
	TO			TO	
4.8	8+940	-4.8	4.3	10+980	-4.3
2.5	8+960	-3.4	2	11+000	-2
0	8+980	-2	0	11+020	0
-2	9+000	-2	-2	11+040	-2
-2	9+020	0		TO	
-2	9+040	2	-2	11+140	-2
	TO		MATCH EXISTING	11+153	MATCH EXISTING
-2	9+220	2	ROUTE 166 NORTH INTERSECTION		
-2	9+240	0			
-2	9+260	-2	-1.5	30+000	-1.5
	TO		1	30+020	-2
-2	9+280	-2	3.5	30+040	-3.5
-2	9+300	0	6	30+060	-6
-2	9+320	2		TO	
-4	9+340	4	6	30+100	-6
-6	9+360	6	3.5	30+120	-3.5
	TO		1	3+140	-2
-6	9+540	6	-2	3+160	-2
-3.5	9+560	3.5			
-1	9+580	1			
1.5	9+600	-1.5			
4	9+620	-4			
6	9+640	-6			
	TO				
6	9+860	-6			
3.5	9+880	-3.5			
2	9+900	-2			
2	9+920	-2			
2	9+940	-2			

GENERAL DECISION ME030009 06/13/03 ME9
General Decision Number ME030009

Superseded General Decision No. ME020009

State: Maine

Construction Type:
HIGHWAY

County(ies):

AROOSTOOK	KNOX	SAGADAHOC
FRANKLIN	LINCOLN	SOMERSET
HANCOCK	OXFORD	WALDO
KENNEBEC	PISCATAQUIS	YORK

HIGHWAY CONSTRUCTION PROJECTS excluding major bridging (for example: bascule, suspension and spandrel arch bridges; those bridging waters presently navigating or to be navigatable; and those involving marine construction in any degree); tunnels, building structures in rest area projects and railroad construction.

Modification Number	Publication Date
0	06/13/2003

COUNTY(ies):

AROOSTOOK	KNOX	SAGADAHOC
FRANKLIN	LINCOLN	SOMERSET
HANCOCK	OXFORD	WALDO
KENNEBEC	PISCATAQUIS	YORK

ENGI0004V 04/01/2003

	Rates	Fringes
POWER EQUIPMENT OPERATORS:		
Pavers	16.51	6.00
Rollers	16.51	6.00

SUME4024A 10/24/2000

	Rates	Fringes
CARPENTERS	11.60	1.51
IRONWORKERS		
Structural	12.03	1.58
LABORERS		
Drillers	10.00	2.50
Flaggers	6.00	
Guardrail Installers	7.92	
Landscape	7.87	.16
Line Stripper	8.69	.23
Pipelayers	9.21	2.31
Rakers	9.00	1.51
Sign Erectors	10.00	
Unskilled	8.66	1.38
Wheelman	8.50	.43

POWER EQUIPMENT OPERATORS
Backhoes

11.87	2.05
-------	------

Bulldozers	12.33	2.88
Cranes	14.06	1.75
Excavators	12.38	2.48
Graders	13.06	3.73
Loaders	11.41	2.87
Mechanics	13.18	2.57
TRUCK DRIVERS		
Dump	9.35	3.10
Tri axle	8.70	1.18
Two axle	8.56	2.19

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
 Wage and Hour Division
 U. S. Department of Labor
 200 Constitution Avenue, N. W.
 Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request

review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.
END OF GENERAL DECISION

Project No. STP-9720(00)X

SPECIAL PROVISION
CONSTRUCTION AREA

A Construction Area located in the **Towns of Castine and Penobscot** has been established by the Maine Department of Transportation in accordance with provisions of Title 29, Section 1703, Maine Revised Statutes Annotated.

The section of highway under construction in Hancock County, project STP-9720(00)X is located on Route 166 and 166A, beginning at the start of Route 166 and extending northerly 1.30 miles to Route 166A then continuing on Route 166A for 3.77 miles to Route 166 and continuing northerly 1.89 miles to Route 175.

The State Department of Transportation or the State's Engineer may issue permits for stated periods of time for moving construction equipment without loads, low-bed trailers with overloads, over-height, over-width or over-length equipment or materials over all State maintained sections described in the "Construction Area" above and in addition may issue permits for stated periods of time for moving overweight vehicles and loads over the section described in (a) above. The right to revoke such a permit at any time is reserved by the State Department of Transportation and the issuance of such permits shall be subject to any Special Provisions or Supplemental Specifications written for this project.

A Temporary Permit for each move may be issued by the State Department of Transportation or the State's Engineer for moving Contractor's construction equipment used on the project which exceeds the legal limits (shovels, bulldozers, etc.) to sources of construction material over highways maintained by the State reasonably within the area of the project.

The Municipal Officers for the **Towns of Castine and Penobscot** agreed that a permit will be issued to the Contractor for the purpose of hauling loads in excess of the limits as specified in Title 29, Maine Revised Statutes Annotated, on the town ways as described in the "Construction Area" and that single move permits will be issued for moving Contractor's construction equipment used on the project which exceeds the legal limits (shovels, bulldozers, etc.) to sources of construction material over town ways reasonably within the area of the project.

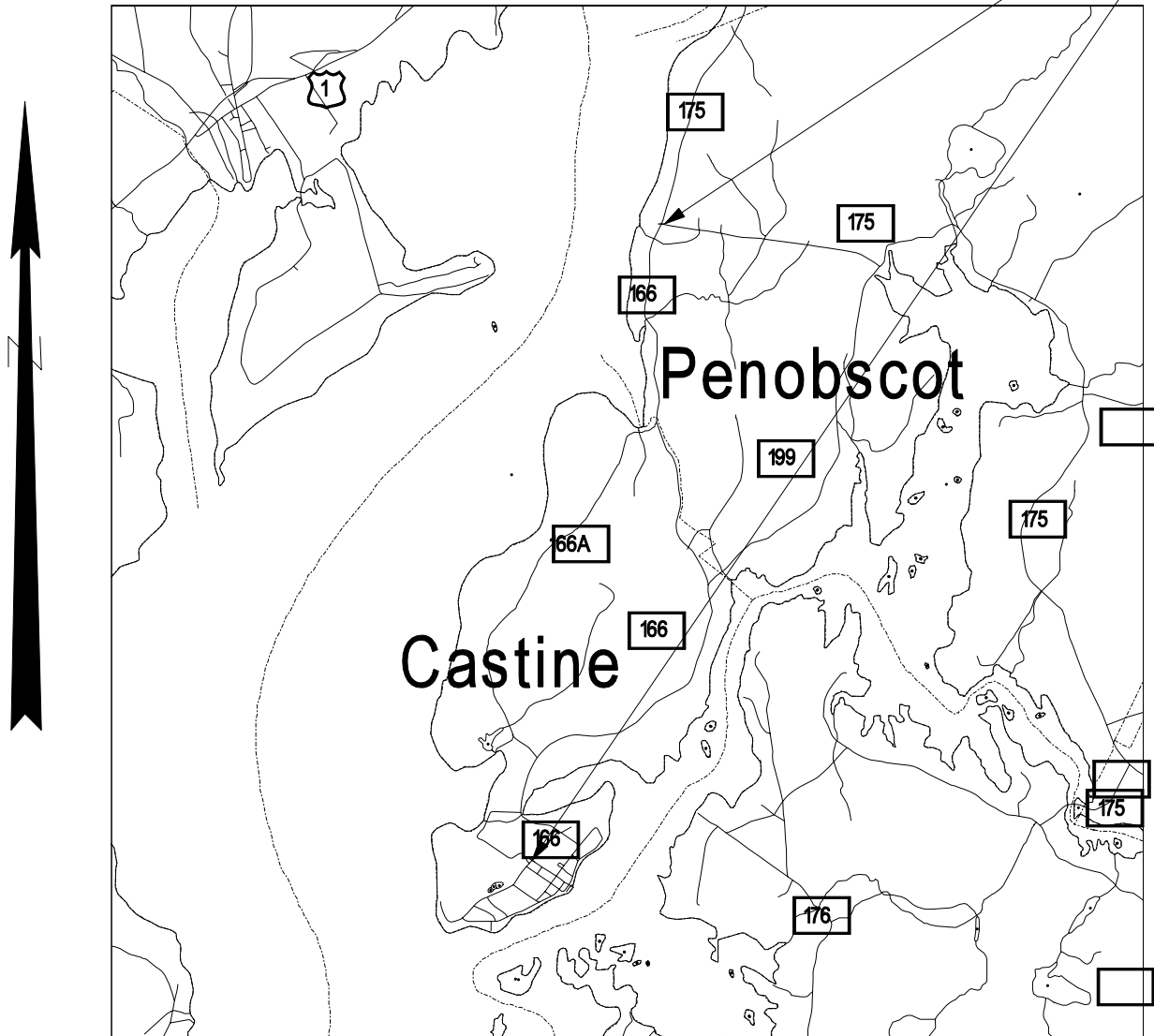
In the event it is necessary to transport gravel, borrow, or other construction material in legally registered vehicles carrying legal loads over town ways, a Contractor's Bond of not more than Nine Thousand (\$9,000.00) per kilometer of traveled length may be required by the town, the exact amount of said bond to be determined prior to use of any town way.

The maximum speed limits for trucks on any town way will be forty (40) km per hour [25 mph], unless a higher legal limit is specifically agreed upon in writing by the Municipal Officers concerned.

STP-9720(00)X

STA. 0+000 BEGIN PROJECT NO. 9720.00

STA. 11+177 END PROJECT NO 9720.00



LOCATION MAP



Scale in Kilometers

SPECIAL PROVISION
CONSTRUCTION AREA

Title 29A, M.R.S.A., Subsection 2383. Overlimit movement permits

1. Overlimit movement permits issued by State. The Secretary of State, acting under guidelines and advice of the Commissioner of Transportation, may grant permits to move non-divisible objects having a length, width, height or weight greater than specified in this Title over a way or bridge maintained by the Department of Transportation.
2. Permit Fee. The Secretary of State, with the advice of the Commissioner of Transportation, may set the fee for these permits, at not less than \$3, nor more than \$15, based on weight, height, length and width.
3. County and municipal permits. A permit may be granted, for a reasonable fee, by county commissioners or municipal officers for travel over a way or bridge maintained by that county or municipality.
4. Permits for weight. A vehicle granted a permit for excess weight must first be registered for the maximum gross vehicle weight allowed for that vehicle.
5. Special mobile equipment. The Secretary of State may grant a permit, for no more than one year, to move pneumatic-tire equipment under its own power, including Class A and Class B special mobile equipment, over ways and bridges maintained by the Department of Transportation. The fee for that permit is \$15 for each 30-day period.
6. Scope of permit. A permit is limited to the particular vehicle or object to be moved and particular ways and bridges.
7. Construction permits. A permit for a stated period of time may be issued for loads and equipment employed on public way construction projects, United States Government projects or construction of private ways, when within construction areas established by the Department of Transportation. The Permit:
 - A. Must be procured from the municipal officers for a construction area within that municipality;
 - B. May require the Contractor to be responsible for damage to ways used in the construction areas and may provide for:
 - (1) Withholding by the agency of the work of final payment under contract; or
 - (2) The furnishing of a bond by the Contractor to guarantee suitable repair or payment of damages.
 - C. May be granted by the Department of Transportation or by the state engineer in charge of the construction contract; and
 - D. For construction areas, carries no fee and does not come within the scope of this section.
8. Gross vehicle weight permits. The following may grant permits to operate a vehicle having a gross vehicle weight exceeding the prescribed limit:

- A. The Secretary of State, with the consent of the Department of Transportation, for state and state aid highways and bridges within city or compact village limits;
 - B. Municipal officers, for all other ways and bridges within that city and compact village limits; and
 - C. The county commissioners, for county roads and bridges located in unorganized territory.
9. Pilot vehicles and state police escorts. Pilot vehicles required by a permit must be equipped with warning lights and signs as required by the Secretary of State with the advice of the Department of Transportation.

Warning lights may only be operated and lettering on the signs may only be visible on a pilot vehicle while it is escorting on a public way a vehicle with a permit.

The Secretary of State shall require a State Police escort for a single vehicle or a combination of vehicles of 125 feet or more in length or 16 feet or more in width. The Secretary of State, with the advice of the Commissioner of Transportation, may require vehicles of lesser dimensions to be escorted by the State Police.

The Bureau of State Police shall establish a fee for State Police escorts.

All fees collected must be used to defray the cost of services provided.

With the advice of the Commissioner of Transportation and the Chief of the State Police, the Secretary of State shall establish rules for the operation for the operation of pilot vehicles.

10. Taxes paid. A permit for a mobile home may not be granted unless the applicant provides reasonable assurance that all property taxes, sewage disposal charges and drain and sewer assessments applicable to the mobile home, including those for the current tax year, have been paid or that the mobile home is exempt from those taxes.

1993, c. 683, § S-2, eff. January 1, 1995.

Historical and Statutory Notes

Derivation:

R.S. 1954, c. 22 § 98
Laws 1955, c. 389
Laws 1967, c. 3.
Laws 1971, c. 593, § 22.
Laws 1973, c. 213.
Laws 1975, c. 130, §
Laws 1975, c. 319, § 2

Laws 1977, c. 73, § 5.
Laws 1981, c. 413.
Laws 1985, c. 225, § 1
Laws 1987, c. 52.
Laws 1987, 781, § 3.
Laws 1989, c. 866, § B-13.
Laws 1991, c. 388, § 8.
Laws 1993, c. 683, § A-1.
Former 29 M.R.S.A. § 2382.

Cross Reference

Collection by Secretary of State, See 29-A
M.R.S.A. § 154.

SPECIAL PROVISION
CORRECTIONS, ADDITIONS AND REVISIONS
Standard Specifications - Revision of December 2002

SECTION 101
CONTRACT INTERPRETATION

101.2 Definitions - Closeout Documentation

Replace the sentence “A letter stating the amount..... DBE goals.” with “DBE Goal Attainment Verification Form”

SECTION 102
DELIVERY OF BIDS
(Location and Time)

102.7.1 Location and Time

Add the following sentence “As a minimum, the Bidder will submit a Bid Package consisting of the Notice to Contractors, the completed Acknowledgement of Bid Amendments & Submission of Bid Bond Validation Number form, the completed Schedule of Items, 2 copies of the completed Agreement, Offer, & Award form, a Bid Bond or Bid Guarantee, and any other Certifications or Bid Requirements listed in the Bid Book.”

SECTION 103
AWARD AND CONTRACTING

103.3.1 Notice and Information Gathering

Change the first paragraph to read as follows: “After Bid Opening and as a condition for Award of a Contract, the Department may require an Apparent Successful Bidder to demonstrate to the Department’s satisfaction that the Bidder is responsible and qualified to perform the Work.”

SECTION 105
GENERAL SCOPE OF WORK

105.6.2 Contractor Provided Services

Change the first paragraph by the addition of the following as the second sentence: “The Contractor is also responsible for providing construction centerline, or close reference points, for all Utility Facilities relocations and adjustments as necessary to complete the Work.”

SECTION 106 QUALITY

106.6 Acceptance Add the following to paragraph 1 of A: “This includes Sections 401 - Hot Mix Asphalt, 402 - Pavement Smoothness, and 502 - Structural Concrete - Method A - Air Content.”

Add the following to the beginning of paragraph 3 of A: “For pay factors based on Quality Level Analysis, and”

SECTION 107 TIME

107.3.1 General Add the following: “If a Holiday occurs on a Sunday, the following Monday shall be considered a Holiday. Sunday or Holiday work must be approved by the Department, except that the Contractor may work on Martin Luther King Day, President’s Day, Patriot’s Day, the Friday after Thanksgiving, and Columbus Day without the Department’s approval.”

SECTION 109 CHANGES

109.1.1 Changes Permitted Add the following to the end of the paragraph: “There will be no adjustment to Contract Time due to an increase or decrease in quantities, compared to those estimated, except as addressed through Contract Modification(s).”

109.1.2 Substantial Changes to Major Items Add the following to the end of the paragraph: “Contract Time adjustments may be made for substantial changes to Major Items when the change affects the Critical Path, as determined by the Department”

SECTION 402 PAVEMENT SMOOTHNESS

Add the following:

“Projects to have their pavement smoothness analyzed in accordance with this Specification will be so noted in Special Provision 403 - Bituminous Box.”

“402.02 Lot Size Lot size for smoothness will be 1000 lane-meters [3000 lane-feet]. A subplot will consist of 20 lane-meters [50 lane-feet]. Partial lots will be included in the previous lot if less than one-half the size of a normal lot. If greater than one-half the normal lot size, it will be tested as a separate lot.”

SECTION 502 STRUCTURAL CONCRETE

502.0502 Quality Assurance Method A - Rejection by Resident Change the first sentence to read: “For an individual subplot with test results failing to meet the criteria in Table #1, or if the calculated pay factor for Air Content is less than 0.80.....”

502.0503 Quality Assurance Method B - Rejection by Resident Change the first sentence to read: “For material represented by a verification test with test results failing to meet the criteria in Table #1, the Department will.....”

502.0505 Resolution of Disputed Acceptance Test Results Combine the second and third sentence to read: “Circumstances may arise, however, where the Department may”

SECTION 535 PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE

535.02 Materials Change “Steel Strand for Concrete Reinforcement” to “Steel Strand”

535.26 Lateral Post-Tensioning Replace the first paragraph; “A final tension...” with “Overstressing strands for setting losses cannot be accomplished for chuck to chuck lengths of 7.6 m [25 ft] and less. In such instances, refer to the Plans for all materials and methods. Otherwise, post-tensioning shall be in accordance with PCI standards and shall provide the anchorage force noted in the Plans. The applied jacking force shall be no less than 100% of the design jacking force.”

SECTION 604 MANHOLES, INLETS, AND CATCH BASINS

604.02 Materials Add the following:

“Tops and Traps	712.07
Corrugated Metal Units	712.08
Catch Basin and Manhole Steps	712.09”

SECTION 615 LOAM

615.02 Materials Make the following change:

<u>Organic Content</u>	<u>Percent by Volume</u>
Humus	“5% - 10%”, as determined by Ignition Test

SECTION 618 SEEDING

618.01 Description Change the first sentence to read as follows: “This work shall consist of furnishing and applying seed” Also remove “,and cellulose fiber mulch” from 618.01(a).

618.03 Rates of Application In 618.03(a), remove the last sentence and replace with the following: “These rates shall apply to Seeding Method 2, 3, and Crown Vetch.”

618.09 Construction Method In 618.09(a) 1, sentence two, replace “100 mm [4 in]” with “25 mm [1 in] (Method 1 areas) and 50 mm [2 in] (Method 2 areas)”

SECTION 620 GEOTEXTILES

620.03 Placement Section (c)

Title: Replace “Non-woven” in title with “Erosion Control”.

First Paragraph: Replace first word “Non-woven” with “Woven monofilament”.

Second Paragraph: Replace second word “Non-woven” with “Erosion Control”.

620.07 Shipment, Storage, Protection and Repair of Fabric Section (a)

Replace the third sentence with the following: “Damaged geotextiles, as identified by the Resident, shall be repaired immediately.”

620.09 Basis of Payment

Pay Item 620.58: Replace “Non-woven” with “Erosion Control”

Pay Item 620.59: Replace “Non-woven” with “Erosion Control”

SECTION 626 HIGHWAY SIGNING

626.034 Concrete Foundations

Add to the following to the end of the second paragraph: “Pre-cast and cast-in-place foundations shall be warranted against leaning and corrosion for two years after the project is completed. If the lean is greater than 2 degrees from normal or the foundation is spalling within the first two years, the Contractor shall replace the foundation at no extra cost.”

SECTION 637 DUST CONTROL

637.06 Basis of Payment Add the following after the second sentence of the third paragraph: “Failure by the Contractor to follow Standard Specification or Special Provision - Section 637

and/or the Contractor's own Soil Erosion and Pollution Control Plan concerning Dust Control and/or the Contractor's own Traffic Control Plan concerning Dust Control and/or visible evidence of excessive dust problems, as determined by the Resident, will result in a reduction in payment, computed by reducing the Lump Sum Total by 5% per occurrence per day. The Department's Resident or any other representative of the Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item. Additional penalties may also be assessed in accordance with Special Provision 652 - Work Zone Traffic Control and Standard Specification 656 - Temporary Soil Erosion and Water Pollution Control."

SECTION 656

TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL

656.5.1 If Pay Item 656.75 Provided Replace the second paragraph with the following: "Failure by the Contractor to follow Standard Specification or Special Provision - Section 656 and/or the Contractor's own Soil Erosion and Pollution Control Plan will result in a reduction in payment, computed by reducing the Lump Sum Total by 5% per occurrence per day. The Department's Resident or any other representative of the Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item."

SECTION 709

REINFORCING STEEL AND WELDED STEEL WIRE FABRIC

709.03 Steel Strand Change the second paragraph from "...shall be 12mm [½ inch] AASHTO M203M/M203 (ASTM A416/A416M)..." to "...shall be 15.24 mm [0.600 inch] diameter AASHTO M203 (ASTM A416)..."

SECTION 712

MISCELLANEOUS HIGHWAY MATERIALS

Add the following:

"712.07 Tops, and Traps These metal units shall conform to the plan dimensions and to the following specification requirements for the designated materials.

Gray iron castings shall conform to the requirements of AASHTO M105, Class 30, unless otherwise designated.

Carbon steel castings shall conform to the requirements of AASHTO M103/M103M. Grade shall be 450-240 [65-35] unless otherwise designated.

Structural steel shall conform to the requirements of AASHTO M183/M183M or ASTM A283/A283M, Grade B or better. Galvanizing, where specified for these units, shall conform to the requirements of AASHTO M111.

712.08 Corrugated Metal Units The units shall conform to plan dimensions and the metal to AASHTO M36/M36M. Bituminous coating, when specified, shall conform to AASHTO M190 Type A.

712.09 Catch Basin and Manhole Steps Steps for catch basins and for manholes shall conform to ASTM C478M [ASTM C478], Section 13 for either of the following material:

- (a) Aluminum steps- ASTM B221M, [ASTM B211] Alloy 6061-T6 or 6005-T5.
- (b) Reinforced plastic steps Steel reinforcing bar with injection molded plastic coating copolymer polypropylene. Polypropylene shall conform to ASTM D 4101.

712.23 Flashing Lights Flashing Lights shall be power operated or battery operated as specified.

- (a) Power operated flashing lights shall consist of housing, adapters, lamps, sockets, reflectors, lens, hoods and other necessary equipment designed to give clearly visible signal indications within an angle of at least 45 degrees and from 3 to 90 m [10 to 300 ft] under all light and atmospheric conditions.

Two circuit flasher controllers with a two-circuit filter capable of providing alternate flashing operations at the rate of not less than 50 nor more than 60 flashes per minute shall be provided.

The lamps shall be 650 lumens, 120 volt traffic signal lamps with sockets constructed to properly focus and hold the lamp firmly in position.

The housing shall have a rotatable sun visor not less than 175 mm [7 in] in length designed to shield the lens.

Reflectors shall be of such design that light from a properly focused lamp will reflect the light rays parallel. Reflectors shall have a maximum diameter at the point of contact with the lens of approximately 200 mm [8 in].

The lens shall consist of a round one-piece convex amber material which, when mounted, shall have a visible diameter of approximately 200 mm [8 in]. They shall distribute light and not diffuse it. The distribution of the light shall be asymmetrical in a downward direction. The light distribution of the lens shall not be uniform, but shall consist of a small high intensity portion with narrow distribution for long distance throw and a larger low

intensity portion with wide distribution for short distance throw. Lenses shall be marked to indicate the top and bottom of the lens.

(b) Battery operated flashing lights shall be self-illuminated by an electric lamp behind the lens. These lights shall also be externally illuminated by reflex-reflective elements built into the lens to enable it to be seen by reflex-reflection of the light from the headlights of oncoming traffic. The batteries must be entirely enclosed in a case. A locking device must secure the case. The light shall have a flash rate of not less than 50 nor more than 60 flashes per minute from minus 30 °C [minus 20 °F] to plus 65 °C [plus 150 °F]. The light shall have an on time of not less than 10 percent of the flash cycle. The light beam projected upon a surface perpendicular to the axis of the light beam shall produce a lighted rectangular projection whose minimum horizontal dimension shall be 5 degrees each side of the horizontal axis. The effective intensity shall not have an initial value greater than 15.0 candelas or drop below 4.0 candelas during the first 336 hours of continuous flashing. The illuminated lens shall appear to be uniformly bright over its entire illuminated surface when viewed from any point within an angle of 9 degrees each side of the vertical axis and 5 degrees each side of the horizontal axis. The lens shall not be less than 175 mm [7 in] in diameter including a reflex-reflector ring of 13 mm [½ in] minimum width around the periphery. The lens shall be yellow in color and have a minimum relative luminous transmittance of 0.440 with a luminance of 2854° Kelvin. The lens shall be one-piece construction. The lens material shall be plastic and meet the luminous transmission requirements of this specification. The case containing the batteries and circuitry shall be constructed of a material capable of withstanding abuse equal to or greater than 1.21 mm thick steel [No. 18 U.S. Standard Gage Steel]. The housing and the lens frame, if of metal shall be properly cleaned, degreased and pretreated to promote adhesion. It shall be given one or more coats of enamel which, when dry shall completely obscure the metal. The enamel coating shall be of such quality that when the coated case is struck a light blow with a sharp tool, the paint will not chip or crack and if scratched with a knife will not powder. The case shall be so constructed and closed as to exclude moisture that would affect the proper operation of light. The case shall have a weep hole to allow the escape of moisture from condensation. Photoelectric controls, if provided, shall keep the light operating whenever the ambient light falls below 215 lx [20 foot candles]. Each light shall be plainly marked as to the manufacturer's name and model number.

If required by the Resident, certification as to conformance to these specifications shall be furnished based on results of tests made by an independent testing laboratory. All lights are subject to random inspection and testing. All necessary random samples shall be provided to the Resident upon request without cost to the Department. All such samples shall be returned to the Contractor upon completion of the tests.

712.32 Copper Tubing Copper tubing and fittings shall conform to the requirements of ASTM B88M Type A [ASTM B88, Type K] or better.

712.33 Non-metallic Pipe, Flexible Non-metallic pipe and pipe fittings shall be acceptable flexible pipe manufactured from virgin polyethylene polymer suitable for transmitting liquids intended for human or animal consumption.

712.34 Non-metallic Pipe, Rigid Non-metallic pipe shall be Schedule 40 polyvinylchloride (PVC) that meets the requirement of ASTM D1785. Fittings shall be of the same material.

712.341 Metallic Pipe Metallic pipe shall be ANSI, Standard B36.10, Schedule 40 steel pipe conforming to the requirements of ASTM A53 Types E or S, Grade B. End plates shall be steel conforming to ASTM A36/A36M.

Both the sleeve and end plates shall be hot dip galvanized. Pipe sleeve splices shall be welded splices with full penetration weld before galvanizing.

712.35 Epoxy Resin Epoxy resin for grouting or sealing shall consist of a mineral filled thixotropic, flexible epoxy resin having a pot life of approximately one hour at 10°C [50°F]. The grout shall be an approved product suitable for cementing steel dowels into the preformed holes of curb inlets and adjacent curbing. The sealant shall be an approved product, light gray in color and suitable for coating the surface.

712.36 Bituminous Curb The asphalt cement for bituminous curb shall be of the grade required for the wearing course, or shall be Viscosity Grade AC-20 meeting the current requirements of Subsection 702.01 Asphalt Cement. The aggregate shall conform to the requirements of Subsection 703.07. The coarse aggregate portion retained on the 2.36 mm [No. 8] sieve may be either crushed rock or crushed gravel.

The mineral constituents of the bituminous mixture shall be sized and graded and combined in a composite blend that will produce a stable durable curbing with an acceptable texture. Bituminous material for curb shall meet the requirements of Section 403 - Hot Bituminous Pavement.

712.37 Precast Concrete Slab Portland cement concrete for precast slabs shall meet the requirements of Section 502 - Structural Concrete, Class A.

The slabs shall be precast to the dimension shown on the plans and cross section and in accordance with the Standard Detail plans for Concrete Sidewalk Slab. The surface shall be finished with a float finish in accordance with Subsection 502.14(c). Lift devices of sufficient strength to hold the slab while suspended from cables shall be cast into the top or back of the slab.

712.38 Stone Slab Stone slabs shall be of granite from an acceptable source, hard, durable, predominantly gray in color, free from seams which impair the structural integrity and be of

smooth splitting character. Natural color variations characteristic of the deposit will be permitted. Exposed surfaces shall be free from drill holes or indications of drill holes. The granite slabs in any one section of backslope must be all the same finish.

The granite slabs shall be scabble dressed or sawed to an approximately true plane having no projections or depressions over 13 mm [$\frac{1}{2}$ in] under a 600 mm [2 ft] straightedge or over 25 mm [1 in] under a 1200 mm [4 ft] straightedge. The arris at the intersection of the top surface and exposed front face shall be pitched so that the arris line is uniform throughout the length of the installed slabs. The sides shall be square to the exposed face unless the slabs are to be set on a radius or other special condition which requires that the joints be cut to fit, but in any case shall be so finished that when the stones are placed side by side no space more than 20 mm [$\frac{3}{4}$ in] shall show in the joint for the full exposed height.

Liftpin holes in all sides will be allowed except on the exposed face.

SECTION 717 ROADSIDE IMPROVEMENT MATERIAL

717.05 Mulch Binder. Change the third sentence to read as follows:

“Paper fiber mulch may be used as a binder at the rate of 2.3 kg/unit [5 lb/unit].”

SPECIAL PROVISIONS**SECTION 104****Utilities****MEETING**

A Preconstruction Utility Conference, as defined in Subsection 104.4.6 of the Standard Specifications is required.

GENERAL INFORMATION

These Special Provisions outline the arrangements that have been made by the Department for utility work to be undertaken in conjunction with this project. The following list identifies all known utilities having facilities presently located within the limits of this project or intending to install facilities during project construction

Overview:

Utility/Railroad	Aerial	Underground	Railroad
Adelphia Communications Corp.	X		
Castine Water & Sewer District		X	
Central Maine Power Company	X		
Verizon	X		

Temporary utility adjustments are **not** anticipated.

Unless otherwise specified, any underground utility facilities shown on the project plans represent approximate locations gathered from available information. The Department cannot certify the level of accuracy of this data. Underground facilities indicated on the topographic sheets (plan views) have been collected from historical records and/or on-site designations provided by the respective utility companies. Underground facilities indicated on the cross-sections have been carried over from the plan view data and may also include further approximations of the elevations (depths) based upon straight-line interpolation from the nearest manholes, gate valves, or test pits.

All adjustments are to be made by the respective utility/railroad unless otherwise specified herein.

All clearing and tree removal in areas where utilities are involved must be completed before the utilities are able to relocate their facilities.

Town: **Castine - Penobscot**

Project: **009720.00**

Date: **09/26/03**

AERIAL

Summary:

Utility	Pole Set	New Wires/ Cables	Trans. Wires/ Cables	Remove Poles	Estimated Working Days
Adelphia Communications Corporation			X		10
Central Maine Power Company	X		X	X	20
Verizon	X		X	X	15
Total:					45

Utility Specific Issues:

Adelphia

Steve Bossie

1-877-500-1055, Ext. 2421

Adelphia has two power supplies that will be affected by pole moves: CMP Pole 423 (Meter #29510252) and CMP Pole 352 (Meter # 33450122). Adelphia would like to coordinate the transfer of both power supplies on the same day with CMP (and/or subcontractors doing work for CMP). Adelphia will need a one week notice prior to starting their work to allow for time to get the materials out of their warehouse.

Central Maine Power Company

Howard Klewin

1-800-750-4000 Ext. 8-233-5105

Central Maine Power would like all contractors and subcontractors to be aware that at station 4+150 (Pole # 392/78) the power voltage steps up from 12,000 to 34,000 volts.

Verizon

Steve Polyot

(207)990-5280

Town: **Castine - Penobscot**

Project: **009720.00**

Date: **09/26/03**

Pole List:

Existing Pole #	Existing Station	Left/Right		Existing Offset	Proposed Station	Left/Right		Proposed Offset	Comments
		LT	RT			LT	RT		
480 1/2	1+824		X	16'	1+824		X	22'	Ditch
No #	1+825		X	16'	1+825		X	22'	Ditch
480	1+860		X	16'	1+860		X	22'	Ditch
480s	1+860	X		15'	1+860	X		22'	Ditch
478	1+954		X	16'	1+954		X	22'	Ditch
478s	1+954	X		17'	1+954	X		20'	Inslope
472	2+188	X		17'	2+188	X		20'	Inslope
15/110	2+262	X		15'					Remove
470	2+263	X		15'	2+263	X		20'	Inslope
457/11/16	2+769		X	19'	2+769		X	22'	Ditch
455/18	2+863		X	20'	2+863		X	22'	Ditch
440/33	3+510		X	20'	3+510		X	22'	Ditch
111/439/34	3+556		X	20'	3+556		X	22'	Ditch
34s/439s	3+556	X		20'	3+556	X		22'	Ditch
No #	3+946		X	20'	3+946		X	22'	Ditch
428/p114/4 5	4+043		X	17'	4+043		X	22'	Ditch
42/47	4+125		X	20'					Remove
424/49	4+205		X	17'	4+205		X	22'	Ditch
423	4+252		X	20'	4+252		X	22'	Ditch
422/11	4+296		X	20'					Remove
420s/53s	4+387	X		17'	4+387	X		20'	Inslope
61	4+540	X		17'	4+540	X		20'	Inslope
392/78	5+450		X	17'	5+450		X	22'	Ditch
352/117	7+212		X	20'	7+212		X	22'	Ditch
322/14/145	8+495	X		16'	8+495	X		22'	Ditch
303/164	9+428	X		17'	9+428	X		22'	Ditch
275s/273s	10+671		X	19'	10+671		X	22'	Ditch

Town: **Castine - Penobscot**

Project: **009720.00**

Date: **09/26/03**

SUBSURFACE

Summary:

Utility	Summary of Work	Estimate d Working Days
Castine Sewer and Water District	Adjust 3 water shut-offs	1
Total:		1

Utility Specific Issues:

Castine Sewer and Water District

Jeff Giroux

(207)326-4845

Dan Levitt

(207)326-8540

There is no sewer impact on this project. There are 3 water shut-offs that will need to be located and adjusted near the Bangor Savings Bank and the Golf Club. There is another water line that begins at approximately 4+205 LT. and services 4 homes on the left. One of the water shut offs will be on the edge of the paved shoulder, and the other 3 will be on the inslope. There should be no need for adjustments on these shut-offs unless the water district would like to adjust to match the slope. The water district would like to go with the contractor to show them where these shut offs are to avoid damage.

Special Provision
Section 105
General Scope of Work
(Limitations of Operations)

1. Unless otherwise authorized, this contract allows for only one paving operation per day (excluding hand placed paving).
2. The contractor will not be allowed to pave over the Cold In Place Recycled Pavement until a 10-day curing period has elapsed. The contractor shall place the Hot Mix Asphalt Base over the Cold In Place Recycled Pavement no later than 7 days after the curing period has elapsed. For every calendar day that the Hot Mix Asphalt Base has not been paved after the required 7 days, the contractor will be assessed liquidated damages in the amount of \$1,000.00 per calendar day. The contractor will be held liable for any damages to the Cold In Place Recycled Pavement areas and all costs to repair these areas. The method of repair must be approved by the MDOT.
3. The contractor shall plan and conduct his work so that the variable gravel in Cold In Place Pavement Recycled areas are completed prior to performing the Cold In Place Recycled Pavement treatment.

SPECIAL PROVISION
SECTION 105
GENERAL SCOPE OF WORK
(48 hour Notice)

The Contractor shall plan paving operations so that the Resident will have sufficient advance notification to provide the necessary inspection and testing. Sufficient notification will be considered 48 hours.

In the event that paving is suspended, the 48 hour notification shall be required again before restarting the paving operations unless otherwise agreed by the Resident.

Consistent notification of paving intent without actually paving will result in the following actions:

First offense - verbal warning

Second offense - written warning

Third and subsequent - liquidated damages will be charged for one calendar day

SPECIAL PROVISION
SECTION 107
SCHEDULING OF WORK

Replace Section 107.4.2 with the following:

"107.4.2 Schedule of Work Required Within 21 Days of Contract Execution and before beginning any on-site activities, the Contractor shall provide the Department with its Schedule of Work. The Contractor shall plan the Work, including the activity of Subcontractors, vendors, and suppliers, such that all Work will be performed in Substantial Conformity with its Schedule of Work. The Schedule must include sufficient time for the Department to perform its functions as indicated in this Contract, including QA inspection and testing, approval of the Contractor's TCP, SEWPCP and QCP, and review of Working Drawings.

At a minimum, the Schedule of Work shall include a bar chart which shows the major Work activities, milestones, durations, and a timeline. Milestones to be included in the schedule include: (A) start of Work, (B) beginning and ending of planned Work suspensions, (C) Completion of Physical Work, and (D) Completion. If the Contractor Plans to Complete the Work before the specified Completion date, the Schedule shall so indicate.

Any restrictions that affect the Schedule of Work such as paving restrictions or In-Stream Work windows must be charted with the related activities to demonstrate that the Schedule of Work complies with the Contract.

The Department will review the Schedule of Work and provide comments to the Contractor within 20 days of receipt of the schedule. The Contractor will make the requested changes to the schedule and issue the finalized version to the Department."

SPECIAL PROVISION
SECTION 107
Time
(Contract Time)

- 1. The Contractor will be allowed to commence work at any time after May 1, 2004 providing all applicable Plans are approved.**
- 2. For every weekday not worked once operation commences, (excluding inclement weather days) the Contractor will be charged supplemental Liquidated Damages at the rate of \$950.00 per day.**
- 3. All work shall be completed by October 30, 2004.**

August 30, 1995

Supersedes

May 20, 1991

SPECIAL PROVISIONS
SECTION 304
AGGREGATE BASE AND SUBBASE COURSE
(Aggregate Subbase)

If the Contractor wishes to route public traffic over the completed Aggregate Subbase Course for a period of time greater than 48 hours, the Aggregate Subbase Course shall be constructed with a minimum 50 mm [2 inch] surcharge above the design grade. Whenever the surcharge is used, it shall be constructed with material meeting the requirements of Subsection 703.06(b), Type D Aggregate. Also, whenever, the surcharge is used, it shall be placed on all the Aggregate Subbase Course subjected to public traffic. When the surcharge is removed, it may be placed in driveways, sidewalks, approach roads, or the outer portions of the shoulders. Removal of the surcharge shall be followed immediately in succession by the fine grading of the aggregate subbase and construction of the next course.

The furnishing, placing, maintaining, and removal of the surcharge will not be paid for directly, but will be considered incidental to the Aggregate Subbase Course pay item.

If salvaged bituminous pavement is placed as the top layer of the aggregate subbase course, a surcharge is not required.

SPECIAL PROVISION

SECTION 310

Cold in-Place Recycled Asphalt Pavement (Traveling Pugmill)

310.01 Description The Contractor shall construct a Cold In-place Recycled Pavement base course in accordance with the Contract documents and in reasonably close conformity with the lines, grades, thicknesses, and typical cross sections shown on the plans or as established. This work will consist of milling 75 to 125 mm [3 to 5 in] of bituminous pavement off the existing mainline travelway and paved shoulders, the pulverizing and sizing the millings, the addition of emulsified asphalt and portland cement or hydrated lime, the mixing and placement of the mixture full width as required in the contract, (including shoulders) and compacting the mixture as one continuous operation to the lines, grades and dimensions specified.

310.02 Composition of Mixture The Contractor shall provide the Resident with a proposed mix design a minimum of two weeks prior to commencing work. The proposed mixed design shall include the emulsified asphalt binder application percentage, type and supplier, the percentage of portland cement or hydrated lime to be added, and the percentage of any supplemental aggregates to be added.

- (a) The aim for air voids in the final product is 8-11%.
- (b) The Contractor may add water as needed to the sized material to facilitate uniform mixing and compaction.
- (c) Included in the mix design will be the product information from the supplier of the asphalt emulsion binder and any product information regarding the portland cement or hydrated lime.
- (d) The Contractor will be responsible for deciding and conducting investigative work to determine the properties of the existing in place bituminous mixes which the Contract documents do not describe. Any cores or laboratory testing the contractor performs to establish the recycled mix design will be incidental to the Cold in Place Recycle pay item and not paid for separately.

Recycled bituminous pavement, after milling and sizing, will meet the following gradation requirements.

<u>Sieve Size</u>	<u>% Passing Limits</u>
37.5 mm [1 ½ in]	100
25 mm [1 in]	95-100

The addition of hydrated lime, or portland cement at 0.50% to 1.0% by weight is a requirement, and is to be included in the mix design criteria.

310.022 Emulsified Asphalt The emulsified asphalt binder shall be a high float asphalt emulsion grade HFMS-2, or a cationic slow-set grade CSS-1H, that meets the requirements of Section 702.04.

310.023 Portland Cement The portland cement shall be Type 1 or 2 that meets the requirements of AASHTO M85-89.

310.024 Hydrated Lime The hydrated lime shall meet the requirements of AASHTO M216.

310.025 Added Aggregates Any new aggregates introduced into the mixture will meet the minimum requirements of Section 703.06 - Type A aggregate.

310.026 Added Water Water shall be clean and free from deleterious concentrations of acids, alkalis, salts or other organic or chemical substances.

310.03 Equipment The existing bituminous pavement shall be recycled in a continuous operation using a recycling train consisting of the following major components:

Mainline Cold Milling Machine The unit shall be self-propelled with a down cutting drum and be automated to continuously adjust and maintain treatment depth. The cutting drums shall be a minimum of 3 meter [10 ft] in width, with the ability to add 0.3 or 0.6 meter [1 or 2 ft] extensions to the drum. Dust suppression systems are required. The unit should be capable of recycling the pavement for the entire lane width to the required dimensions in one pass.

Shoulder Cold Milling Machine If required, the unit shall have a minimum cutting drum of 2 meter [6.5 ft] in width. This unit shall precede the larger mainline milling machine to remove existing pavement off any existing paved shoulders. The material will be placed via a lift conveyor onto the existing mainline roadway surface to be incorporated and processed by the mainline milling machine.

310.032 Screening and Sizing Unit This unit shall be capable of reducing and sizing the recycled asphalt pavement to the specified gradations prior to mixing with the asphalt emulsion, and cement or lime additives. Oversize particles shall not be included in the final mix. The manufacture of excessive waste through the screening process will be prohibited. If more than 5% of the recycled material is screened off as waste, the contractor will be required, at no additional compensation, to re-introduce the material ahead of the train to be reprocessed.

310.04 Portable Mixing Unit The unit shall be capable of producing a uniform, thoroughly mixed, cold mix asphalt product.

The material feed system to the mixing unit shall be equipped with a computer controlled weigh bridge that will determine the mass of recycled material, by weight, being deposited into the mixing unit prior to the addition of the emulsified liquid asphalt. The scales shall be calibrated to the manufacturer's tolerance at the start of the contract and will be checked for conformance to Section 401.074.

This mixing unit shall be of a dual shaft pugmill design, equipped with a metering device which will continuously meter and maintain the amount of emulsified asphalt being added to the process to a tolerance of $\pm 0.25\%$ of the total, by weight.

The emulsion control unit shall be equipped with a flow meter and a total delivery meter. A positive displacement pump capable of accurately metering the required quantity of emulsion down to a rate of 15.1 L/min [4gal/min] into the recycled material is required.

The pump shall be equipped with a positive interlock system that will shut off automatically when material is not present in the mixing chamber.

Each mixing machine shall be equipped with a meter capable of registering the rate of flow and total delivery of the emulsion introduced into the mixture.

The unit shall be designed to either deposit the mixed product onto the roadway in a sized windrow, or capable of depositing the product directly into a paver hopper.

310.05 Placing Equipment If a pick up conveyor is to be utilized to transfer the windrow into a paver hopper, the pick up conveyer machine shall be capable of removing the entire windrow down to the underlying material. The paver utilized to place the recycled product shall conform to Section 401.09.

310.06 Compaction Equipment Required compaction equipment train shall consist of a minimum of one 9 Mg [10 ton] double drum steel wheel vibratory roller, and one 18 Mg [20 ton] pneumatic tired roller. The pneumatic tired roller shall meet the requirements of Section 401.10 and the minimum allowable tire pressure shall be 586 kPa [85 psi]. The Contractor shall furnish a suitable tire gauge for determining air pressure in the tires.

Additional equipment may be required in sufficient numbers and weight to obtain the required compaction.

When areas of the pavement surface are inaccessible because of the physical constraints of the equipment, the pavement shall be removed by other means and replaced by an approved source hot mix asphalt.

310.07 Removal of Existing Pavement The existing pavement surface, including cracks, shall be visibly free from all foreign matter before recycling commences. The Contractor is responsible for removing any deleterious materials or crack sealants decided to be an interference with the cold recycle process. In areas where paved shoulders exist, the shoulders will be milled just ahead of the mainline milling and removed material incorporated into the recycle process.

Mainline milling will be accomplished full lane width, in one pass.

310.08 Weather and Temperature Limitations The Cold In-Place Recycled process shall not be performed when the ambient temperature is less than 10°C [50°F], when overnight

temperatures are forecasted to be less than 2°C [35°F], or when the weather is foggy, rainy, or standing water is present on the treated, or untreated surface.

The work shall not be performed when, in the opinion of the Resident, proper mixing, spreading, and/or compacting of the material will not be satisfactorily accomplished.

310.09 Surface Tolerances The completed recycled pavement surface will be shaped, compacted, smoothed and true to required line and grade. Deviations in the finished surface shall not exceed 9 mm [3/8 in] in any direction using a 3 meter [10 ft] minimum straight edge. Any repairs required to correct surface deviations are at the contractor's expense using Department approved material and methods.

The Contractor shall protect the completed surface from damage caused by construction vehicles and equipment. The recycled pavement surface shall be protected and closed to traffic until it is determined that surface damage no longer occurs when a test vehicle is passed over it. The contractor is responsible for determining when the completed surface is suitable for traffic loading without damage. Any repairs to correct damage will be at the contractor's expense.

Joints shall be constructed in accordance with Section 401.18.

310.10 General Procedure Mainline milling is accomplished full width, one pass, and the material will be conveyed into a sizing and crushing unit. Once sized, the material is conveyed to a mixing unit where the specified percentage of asphalt emulsion, portland cement, or lime is introduced for the coating and mixing process.

The thoroughly mixed recycled product will either be deposited, (a) in a windrow behind the mixing unit and picked up via a conveyor, or (b) directly conveyed into a paver hopper for laydown. The mix will be laid full width, including shoulders where paved shoulders existed, to the specified grade and slope.

The compaction effort shall commence after the water has evaporated from the asphalt emulsion and shall be continuous until optimum compaction is achieved. Water shall be used as necessary to assist the compaction effort.

310.101 Testing Requirements The Contractor shall conduct quality control testing on a daily basis.

A minimum of two gradations will be performed by the Contractor on any new aggregate added to the recycled mixture, per day.

The Contractor shall verify emulsion usage quantities by measuring tanker volume every 300 meters [1000 ft] recycled. A calibrated dipstick marked at intervals of no more than 100 L [25 gal], shall be used for measuring the contents of the tank.

The Contractor, throughout the recycling process, shall continuously monitor all compaction effort, treatment depth, and equipment calibration. Documentation of the processes and any field corrections shall be presented to the Resident daily.

Moisture content, percent air void, and density shall be measure by the Department using a nuclear density gauge.

310.102 Test Strip A 90 m [300 ft] test section at the beginning of the recycling operation will be designated as a control density section. The control density section will be treated and rolled until nuclear gauge readings show an increase in dry density of less than 16 kg/m³ [1 pcf] for the final four vibratory roller passes. This density will be used as the maximum target density for the cold in-place recycled pavement. The density of the remaining cold in-place recycled pavement shall be a minimum of 98% of the target density as determined in the control section.

310.103 Testing Frequency The Department will conduct Acceptance tests for gradation on any new aggregate added to the recycled process at a frequency to be determined after the job mix has been developed.

A certificate of compliance will be required for each load of emulsion delivered and incorporated into the process. A minimum of one field sample will be taken to verify compliance to the Specifications.

The in place density of the Cold In-Place Recycled pavement will be determined by the Department using nuclear density gauges. Acceptance tests will be taken at a minimum frequency of 1 test per 600 meter/lane [2000 ft/lane]. Random test bcations shall be determined the Resident prior to the start of the work.

310.11 Measurement and Payment The accepted quantity of Cold in Place Recycled Pavement will be measured and paid for by the square meter [square yard] complete and in place to the limits specified in the contract documents. The unit price shall include all materials, equipment, supervision, and labor and tools incidental thereto.

No additional payment will be made for hot mix required to replace material that cannot be compacted to the specified density, or used to replace damaged or raveled sections. The removal of existing pavement, placement, and compaction of any hot mix asphalt required in areas that are inaccessible due to the limitations of equipment shall be paid for as Cold in place Recycle mix per square yard.

Payment to be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
310.14 Cold in-Place Recycled Asphalt Pavement (Traveling Pugmill)	square meter [square yard]

SPECIAL PROVISION
SECTION 310
BITUMINOUS BASE COLD-IN-PLACE RECYCLING

Description:

This work to consist of milling 115 mm of the existing bituminous pavement, pulverizing and sizing the millings, adding emulsified asphalt and Portland Cement or Hydrated Lime, mixing, repaving full width (including shoulders) and compacting the mixture in one continuous operation to the lines, grades and dimensions specified.

Materials:

Recycled Bituminous pavement, after milling and sizing will meet the following gradation requirements*:

Sieve Size	% Passing Limits
40 mm.	100
25 mm	95-100

The Emulsified Asphalt Binder shall be a High Float Asphalt Emulsion HFMS-2 or a Cationic Slow Set CSS-1H and shall be 1.5-2.2% by weight for the typical mix design content.

Addition of Hydrated Lime or Portland Cement at 0.50%-0.75% by weight is required and to be included in the mix design criteria.

Mix Design:

Two weeks prior to commencing work, the Contractor shall provide the Project Resident Inspector with a proposed mix design that includes the asphalt binder application rates and the amounts of any supplemental aggregates.

The aim for air voids in the final product is 8-12%.

The Contractor may add water as needed to the sized material to facilitate uniform mixing and compaction.

The Contractor is responsible for deciding and conducting any investigative work to determine the properties of the existing in place bituminous mixes which the contract documents do not describe. Any cores or laboratory testing the contractor performs to establish the recycled mix design will be incidental to the Cold in Place Recycle pay item and not paid for separately.

Included in the mix design will be the product information from the supplier of the asphalt emulsion binder and any product information regarding included supplemental Portland Cement or Hydrated Lime.

Equipment:

The existing bituminous pavement shall be recycled in a continuous operation using a recycling train consisting of the following major components:

Mainline Cold Milling Machine - The unit shall be self-propelled with a down cutting drum and automated continually adjusting depth control. The cutting drums shall be a

minimum of 3 m wide with the ability to add 300 mm or 600 mm extensions. Dust suppression systems are required. The unit should be capable of recycling the pavement for the entire lane width to the required dimensions in one pass.

Shoulder Cold Milling Machine with 2 m drum - This unit will precede the large milling machine and mill off the pavement on the .9 m shoulder. The material will be placed via the conveyor onto the existing mainline roadway surface to be recycled by the Mainline Milling Machine.

Screening and Sizing Unit:

This unit shall be capable of reducing the recycled asphalt pavement to the specified maximum gradations prior to mixing with the asphalt emulsion and cement or lime additives. Oversize particles shall not be included in the final mix. Excessive waste (more than 5% of the recycled material) through the screening process is prohibited.

Mixing Unit:

This unit shall be equipped with a device which will continuously meter and maintain the amount of emulsified asphalt added to the process to a tolerance of plus or minus 0.5% of the aggregate feed by weight. The unit shall be capable of producing a uniform thoroughly mixed asphalt cold mix product.

The feed system to the mixing unit shall be equipped with a computer controlled weigh bridge determining the mass of material by weight being deposited into the mixing unit prior to the addition of the liquid asphalt. The scale shall be calibrated to the manufacturer's tolerance at the start of the contract and as deemed necessary by the Project Resident Inspector.

The emulsion control unit shall be equipped with a flow meter and a total delivery meter. A positive displacement pump capable of accurately metering the required quantity of emulsion down to a rate of 3.3 liter/min into the recycled material is required. Said pump shall be equipped with a positive interlock system which will automatically shut off when material is not present in the mixing chamber.

Each mixing machine shall be equipped with a meter capable of registering the rate of flow and total delivery of the emulsion introduced into the mixture.

The unit shall be able to deposit the mixed product onto the roadway in a windrow or be capable of depositing the product directly into a paver hopper.

Placing Equipment:

When a pick up conveyor is used to feed the windrow into the paver hopper, the pick up machine shall be capable of removing the entire windrow to the underlying material.

The paver shall be self propelled and have a minimum 3 m screed and the ability to extend or be built up to pave the entire roadway surface including shoulders in one pass.

The paver shall have a fully automated screed with grade and slope control and a 9 m minimum grade referencing attachment.

Compaction Equipment:

Rolling equipment shall consist of at least one 9 Mg minimum double drum steel wheel vibratory roller (heavier is preferred) and one 18 Mg minimum rubber tired roller. Additional equipment may be required in sufficient numbers and weight to obtain the required compaction. Water as needed.

Compaction:

Density of the Cold in Place Recycled pavement will be determined by the Project Resident Inspector using nuclear density gauges. A minimum of ten readings will be obtained at random locations predetermined by the Project Resident Inspector. A 90 meter test section at the beginning of the recycling operation will be designated as the control section. The controlled section will be rolled until the nuclear density readings show an increase in density of less than 1 kg/cubic meter after four vibratory roller passes. This density will be used as the maximum target density for the cold in place recycled pavement. The density of the remaining cold in place recycled pavement shall be a minimum of 97% of the maximum or target density as determined in the control section.

Limitations:

Operational limitations - This work shall not be carried out when the ambient temperature is less than 10 degrees C (50 degrees F) or when overnight temperatures are forecasted to be less than 2 degrees C (35 degrees F) or when the weather is foggy, rainy or there is standing water on the surface.

The work shall not be carried out when in the judgement of the Project Resident Inspector, proper mixing, spreading, and or compacting of the material can not be satisfactorily accomplished.

When areas of the pavement surface are inaccessible because of the physical constraints of the equipment, the pavement shall be removed by other means and replaced by hot mix asphalt .

Construction Sequences:

The existing pavement surface, including cracks, shall be visably free from all foreign matter before recycling commences. The Contractor is responsible for removing any deleterious materials or crack sealants decided to be an interference with the cold recycle process.

In areas where paved shoulders exist, the shoulders will be milled just ahead of the mainline milling and incorporated into the recycle process.

Mainline milling is accomplished full width, one pass, and the material is conveyed into a sizing and crushing unit.

Once sized, the material is conveyed to a mixing unit where asphalt emulsion and Portland Cement or lime is introduced for the coating and mixing process.

Thoroughly mixed product is either deposited in a windrow behind the mixing unit and picked up via a conveyor or directly conveyed into a paver hopper for laydown.

The mix is laid full width including shoulders where paved shoulders existed to the specified grade and slope.

Rolling will start after asphalt emulsion has “broke“ and be continuous until compaction is achieved.

Traffic will not be allowed on recycled surface until such time as surface damage no longer occurs when a test vehicle is passed over it.

General Expectations:

The compacted surface will be smooth and true to line and grade. Deviations in the finished surface shall not exceed 15 mm in any direction using a minimum 3 m straight edge. Any required repairs to correct deviations are at the contractor’s expense.

The completed surface shall be protected from damage from construction vehicles. The contractor is responsible for determining when the completed surface is suitable for traffic loading without damage. Any repairs to correct damage are at the contractor’s expense.

Minimum Testing Requirements:

Two daily test each for gradation, Asphalt content, Moisture content and air voids. Compaction, milling depth and equipment calibration shall be continuously monitored through out the recycling process. Any field corrections shall be documented and presented daily to the Resident Engineer.

Measurement and Payment:

The accepted quantity of Cold in Place Recycled Pavement will be measured and paid for by the square meter complete and in place to the limits specified in the contract documents. The unit price shall include all materials, equipment, labor and tools incidental thereto.

No additional payment will be made for Hot Mix required to replace material which cannot be compacted to the specified density or used to replace raveled sections.

The removal of existing pavement, placement and compaction of hot mix asphalt required in areas that are inaccessible due to the limitations of equipment shall be paid for as Cold in place Recycle mix per square meter.

Payment to be made under:

Pay Item

Pay Unit

310.14 Cold-In-Place Recycling

Square Meter

SPECIAL PROVISION
SECTION 403
SUPERPAVE HOT MIX ASPHALT OVERLAY

Desc. of Course	Grad. Design	Item Number	Bit Cont. % of Mix	Total Thick	No. of Layers	Comp. Notes
<u>Cold Inplace Recycle Areas</u>						
<u>Full Construction, Variable Gravel Areas</u>						
<u>Mainline Travelway and Shoulders</u>						
Wearing	9.5mm	403.210	N/A	30-40mm	1	4,7
Wearing	12.5mm	403.208	N/A	40-50mm	1	4,7
Base	9.5mm	403.210	N/A	30 mm	1	4,7
Base	12.5mm	403.213	N/A	45-50mm	1/more	4,7
Base	19.0mm	403.207	N/A	60-75mm	1/more	4,7,11
<u>Overlay Areas</u>						
<u>Mainline Travelway and Shoulders</u>						
Wearing	9.5mm	403.210	N/A	30mm	1	4,7
Base	9.5mm	403.210	N/A	30mm	1/more	4,7,11
Shim	9.5mm	403.211	N/A	variable	1/more	2,4,7,10
<u>Bridge Pavement Layer</u>						
Wearing	9.5mm	403.210	N/A	35mm	1	4,7
Base	12.5mm	403.213	N/A	40mm	1/more	4,7,11
<u>Drives, Misc.</u>						
Wearing	9.5mm	403.209	N/A	50mm	2/more	2,3,9,10,13

COMPLEMENTARY NOTES

2. The density requirements are waived.
3. The design traffic level for mix placed shall be <0.3 million ESALS.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS.
7. Section 106.6 Acceptance, (1) Method A.
9. Section 106.6 Acceptance, (2) Method C.
10. A **“FINE”** 9.5 mm mix with a gradation above or through the restricted zone shall be used for this item.
11. A mixture meeting the gradation of 12.5mm hot mix asphalt may be used at the option of the contractor.
13. A mixture meeting the requirements of section 703.09 Grading ‘D’, with a minimum PGAB content of 6%, and the limits of Special Provision 401, Table 9 (Drives and Sidewalks) for PGAB content and gradation may be substituted for this item. A job mix formula shall be submitted to the department for approval.

Tack Coat

A tack coat of emulsified asphalt, RS-1 or HFMS-1, Item #409.15 shall be applied to any existing pavement at a rate of approximately 0.08 L/m², and on milled pavement approximately 0.2 L/m², prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim / intermediate course and the surface course, at a rate not to exceed 0.08 L/m².

Tack used between new layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.

SPECIAL PROVISION
SECTION 502
STRUCTURAL CONCRETE
(Existing Structure Modification – Morse Cove Bridge)

Description: This work shall consist of the removal of portions of the existing concrete headwall and superstructure curb and deck, design and construction of modified superstructure and curb as shown on the contract documents.

Construction requirements: All work shall be in conformity with applicable requirements of Section 502 of the Standard Specifications, Supplemental Specifications, and Special Provision. The existing concrete shall be removed and disposed of in accordance with the requirements of subsection 202.03. In general, removal of the concrete shall be accomplished without damage to the portion of the structure that is to remain. The surfaces to receive new concrete shall be free of oil, solvent, grease, dirt, dust, bitumen, loose particles and foreign matter.

Membrane waterproofing shall be a sheet membrane type. Material shall comply with and be installed in accordance with Section 508 - Membrane Waterproofing.

Reinforcing steel shall comply with Section 503 - Reinforcing Steel.

Design Requirements: The Contractor shall design the structural concrete bridge modifications in accordance with the AASHTO Specifications for Highway Bridges, current edition, by either the Load Factor Design (LFD) or Load and Resistance Factor Design (LRFD) method. The design live load shall be as follows: MS-22.5 (HS-25) for LFD method, * modified HL-93 Strength I for LRFD method, *(modify HL-93 by increasing all wheel loads by a factor of 1.25). Design must also comply with State of Maine Standard Specifications.

The Contractor shall submit design calculations and working drawings for modifications to the Department for approval. A Registered Professional Engineer, licensed in accordance with State of Maine laws, shall sign and seal all design calculations and drawings. The Contractor shall submit bridge operating and inventory ratings in accordance with AASHTO requirements with the design calculations. Drawings shall conform with Subsection 105.7 - Working Drawings.

The superstructure modification shall be designed to act integrally with the existing deck. Existing reinforcing may be salvaged or new bars added by drilling and grouting as determined by the Contractor's designer. Drill and grout reinforcing to existing structure will be as determined by the Contractor's designer. If drill and grout is used, the minimum pull out strength shall be determined by the Contractor's designer and verified in the field. A minimum of 10% of the bars shall be tested for the minimum pull out capacity. If a pull out failure occurs in the original 10%, then 25% shall be tested. If

further failure occurs in the 25% then all bars shall be tested. Bars that do not meet the minimum pull out must be replaced and the new bar tested.

Method of Measurement: Existing Structure Modifications will be measured for payment by the unit, consisting of all work required as shown in the contract book.

Basis of Payment: Existing Structure Modifications will be paid for at the contract lump sum price. The contract lump sum price shall be full compensation for designing, furnishing all labor, materials, including concrete, reinforcing steel, bridge membrane, protective coating and incidentals required to complete the work.

Payment will made under:

<u>Pay Item</u>	<u>Pay Unit</u>
<u>502.41</u> Structural Concrete Superstructure Slab	M3

SUPPLEMENTAL SPECIFICATION
SECTION 508
MEMBRANE WATERPROOFING

508.01 Description. This work shall consist of furnishing and applying an approved membrane waterproofing to the concrete deck surfaces with a barrier type membrane in accordance with this specification and in conformity with the plans.

MATERIALS

508.02 Materials. The barrier type membrane shall consist of an adhesive primer, preformed sheet waterproofing membrane, and a mastic with all components being as recommended by the manufacturer and approved by the Department as shown on the Prequalified List of Approved Barrier Membranes maintained by the Department.

CONSTRUCTION REQUIREMENTS

508.04 General. Materials shall be stored in such a manner that they are protected from excessive heat and freezing. Priming and membraning shall only be done when the air and concrete temperatures are above 10°C [50°F] and the surfaces are dry **and have a moisture at or below 6%. The moisture content will be checked with a “Sovereign Portable Electronic Moisture Master” meter or an approved equal.** Concrete shall be at least 10 days old prior to applying the primer. Areas where rapid setting patching materials have been placed shall be cured for a minimum of 72 hours, or longer when recommended by the product manufacture. **The entire deck shall be shot blasted to achieve an anchor profile which is clean of all foreign materials, such as oil or grease, and any sharp protrusions removed, and free of laitance. The Contractor shall have a copy of Technical Guideline No. 03732, published by the International Concrete Repair Institute. The final concrete surface profile shall range between a CSP 1 and a CSP 5 as defined by this Guideline.** Potholes and spalls shall be filled with a product from the Department's Prequalified List of Deck Patching Materials applied in accordance with the Department's approved procedures. Membrane waterproofing on existing structures shall be completely removed to the primed surfaces, except when it can be considered as being compatible with the new membrane, as determined by the Resident. The removal of existing membrane will only be to the extent, as deemed by the Resident, to be of a reasonable effort. All surfaces shall then be swept and cleaned by brooms and compressed air as directed by the Resident.

All areas that are to receive membrane shall be primed and allowed to cure in accordance with the manufacturer's recommendations.

A minimum width 225 mm [9 inch] membrane sheet shall be applied to fit into the recess in the concrete or granite faced bridge curbs. The first full sheet of membrane shall be applied as close as possible to the curb line.

A minimum width 225 mm [9 inch] membrane sheet shall be applied with termination ends at concrete faces the top edge being within 13 mm [1/2 inch] of the top of the bituminous pavement overlay. The first full sheet of membrane at the terminations ends shall be applied as close as possible to the face lines.

Termination edges at ends of slab shall be double covered with membrane by applying an initial strip of 225 mm [9 inch] minimum width centered along the axis of the edge. All edges shall be chamfered and all inside corners filled with a mortar fillet.

All slab construction joints shall first be covered with a minimum 300 mm [12 inch] width of membrane sheet underlayment, applied to the primed surface.

Membrane shall be installed in a shingled pattern so that water is permitted to drain to the low areas of the deck without accumulating against seams, and pressed or rolled into place to assure bond with the primed surface and elimination of air bubbles.

Paving operations shall be done in a manner to permit water to drain to the low area of the deck without entrapment.

The perimeter of all membrane placed in a given day's operation shall receive a seal of mastic over the edge of the membrane. Areas around drains or protrusions shall be liberally coated with mastic at the edges. When the membrane is completed, the perimeter shall receive an additional seal of mastic along the edge of the membrane.

No vehicles other than the bituminous overlay equipment will be permitted on the membrane prior to the bituminous overlay. Overlay equipment wheels and tires shall be clean and free from stones or other material which could penetrate the membrane. Bituminous overlay may be applied over the installed membrane immediately.

Immediately prior to paving over the membrane, the entire surface of the membrane shall be rolled with a rubber tired roller and any air bubbles shall be eliminated by slitting the membrane and forcing the air out. These slits and any ruptures found shall be repaired by applying a membrane sheet at least 150 mm [6 inch] wider than the slit in all directions.

The 25 mm [1 inch] diameter drains in the deck shall be completely opened prior to paving over them. Any drainage slots in the metal roadway drains shall be opened both before and after placing the bituminous pavement.

Overlap of side seams and end laps, application procedures not addressed by this specification, and the laydown temperature of the bituminous overlay shall be in accordance with the manufacturer's recommendations.

508.05 Method of Measurement. Membrane waterproofing will be measured for payment as one lump sum.

508.06 Basis of Payment. Membrane waterproofing will be paid for at the contract lump sum price, which shall be payment in full for furnishing all materials, labor and equipment and all incidentals necessary to satisfactorily complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
508.13 Membrane Waterproofing	Lump Sum

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC

Approaches. Approach signing shall include the following signs shown on the Standard Maintenance of Traffic in Construction Zones sheet for "Project Approach Signing - Two Way Traffic".

- Road Work Ahead
- Road Work 500 Feet with 25 MPH Advisory Speed Plate
- Road Work 1000 Feet
- End Road Work

Work Area. At each work site, signs and channelizing devices as shown on the Standard Maintenance of Traffic in Construction Zones sheets of the plans shall be used as directed by the Resident.

Signs include:

- Work Area Ahead
- Work Area with 25 MPH Speed Plate
- One Lane Road
- Flagger Sign
- Road Closed to Thru Traffic (R11-4)
- Road Closed (R11-2)
- Detour 1000 Feet (W20-2)
- Detour Arrow (M4-10) Left & Right
- End Detour

Other typical signs include:

- Trucks Entering
- Pavement Ends
- Directional Arrows
- Bump

The above lists of Approach signs and Work Area signs are representative of the contract requirements. Other sign legends may be required.

During construction of the superstructure, the Contractor shall maintain two way traffic on the Special Detour.

When traffic is routed over the Special Detour, the existing bridge shall be closed to traffic by means of temporary concrete barriers, beam type guardrail, or other approved barriers.

Detour signing shall be installed prior to the closure of the superstructure and maintained through the closure by the Contractor.

When the superstructure is open to traffic the Contractor shall immediately remove all detour signing.

The Contractor shall provide a minimum roadway width of 7.3 m [24 feet] for two way traffic and 3.6 m [12 feet] for one way traffic. Two way traffic operation shall be provided at all times the Contractor is not working on the approaches. One way traffic shall be controlled through work areas by Flaggers equipped with direct communication.

Channelization. Channelization devices shall include the following:

- Type I Barricades
- Type II Barricades
- Type III Barricades
- Drums
- Cones
- Vertical Panel Markers

Channelization devices shall be installed and maintained at all times at the spacing determined by the MUTCD through the work area.

Channelization devices consisting of barricades or drums, at a maximum spacing of 15 m [50 feet] shall be used in guardrail areas when neither the existing guardrail nor the new guardrail is in place.

Roadside Recovery Area. The Contractor shall not store material nor shall park equipment within 1.25 m [4 feet] of the edge of the travel lanes and equipment parked overnight within 2.75 m [9 feet] of the edge of the travel lane be clearly marked by channelizing devices or other reflective devices.

Temporary Centerline. A temporary centerline of reflectorized traffic paint shall be marked each day as new pavement to be used by traffic. The temporary centerline shall conform to the standard marking patterns used for permanent markings and will be paid for under Pay Item 627.78.

Failure to apply a temporary centerline daily will result in suspension of paving until temporary markings are applied to all previously placed pavement.

Speed Limit in Work Zones. The Contractor shall sign all approved reduced speed limits on construction projects according to APM #431-A Policy on the Establishment of Speed Limits in Work Zones.

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC
(Traffic Control)

652.7 Method of Measurement. This entire Subsection is revised to read:

Traffic Control Supervisor, furnishing, installation, and maintenance of all traffic control devices **including flaggers** will be measured as one **lump sum** for all work authorized and performed.

652.8 Basis of Payment. This entire Subsection is revised to read:

Traffic Control will be paid for at the contract **lump sum** price. Payment will be full compensation for the Traffic Control Supervisor, flaggers, approach signs, work area signs, drums, cones, panel markers, barricades, arrow boards etc. and maintenance thereof including the setting up and taking down of lane closures as many times as necessary shall be considered part of the lump sum price.

Maintenance of signs includes: replacing devices damaged, lost, or stolen, and cleaning and moving as many times as necessary throughout the life of the contract, regardless whether the work areas or projects are geographically separated or not separated.

The Lump Sum will be payable in installments as follows: 5% of the Lump Sum once the approach signing is complete and approved, with the 95% balance to be paid as the work progresses at a rate proportional to the percentage completion of the Contract.

Failure by the contractor to follow the Contracts 652 Special Provisions and/or The Manual on Uniform Traffic Control Devices (MUTCD) and/or The Contractors own Traffic Control Plan will result in a reduction in payment, computed by reducing The Lump Sum Total by 5% per occurrence. The Departments Resident Engineer or any other representative of The Department reserves the right to suspend the work at any time and request a meeting to discuss violations and remedies. The Department shall not be held responsible for any delay in the work due to any suspension under this item.

All other requirements under the Standard Specifications Section 652 will be a part of the lump sum item.

There will be no extra payment for this pay item after the expiration of contract time.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
652.39 Work Zone Traffic Control	Lump Sum

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC

Approaches Approach signing shall include the following signs as a minimum. Field conditions may warrant the use of additional signs as determined by the Resident.

Road Work Next x Miles
Road Work 500 Feet
End Road Work

Work Area At each work site, signs and channelizing devices shall be used as directed by the Resident. Signs include:

Road Work xxxx¹
One Lane Road Ahead
Flagger Sign

Other typical signs include:

Be Prepared to Stop
Low Shoulder
Bump
Pavement Ends

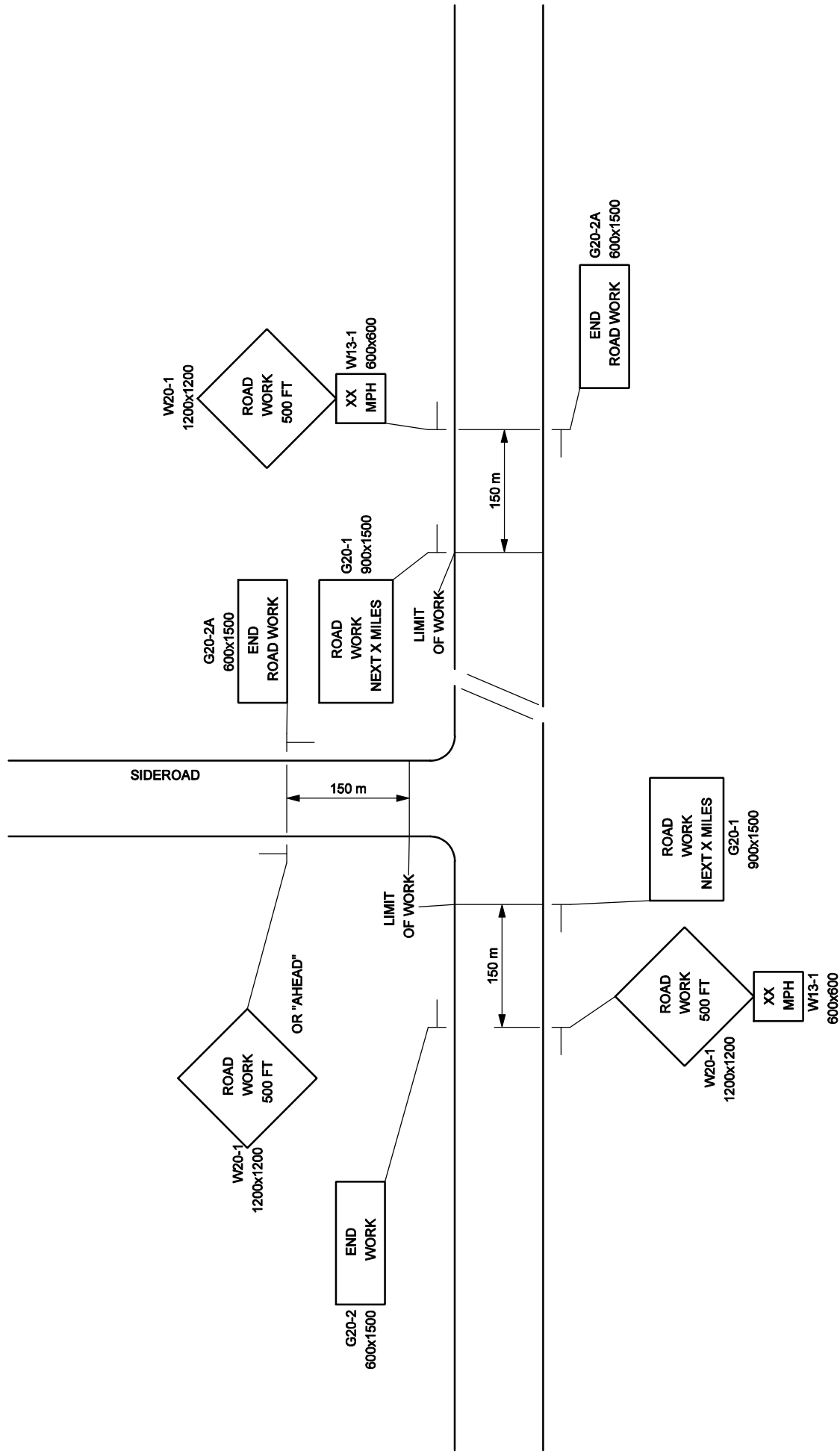
The above lists of Approach signs and Work Area signs are representative of the contract requirements. Other sign legends may be required.

The Contractor shall conduct their operations in such a manner that the roadway will not be restricted to one lane for more than 800 m [2,500 ft] at each work area. Where more than one work area restricts traffic to one lane operation, these work areas shall be separated by at least 1.6 km [1 mile] of two way operation.

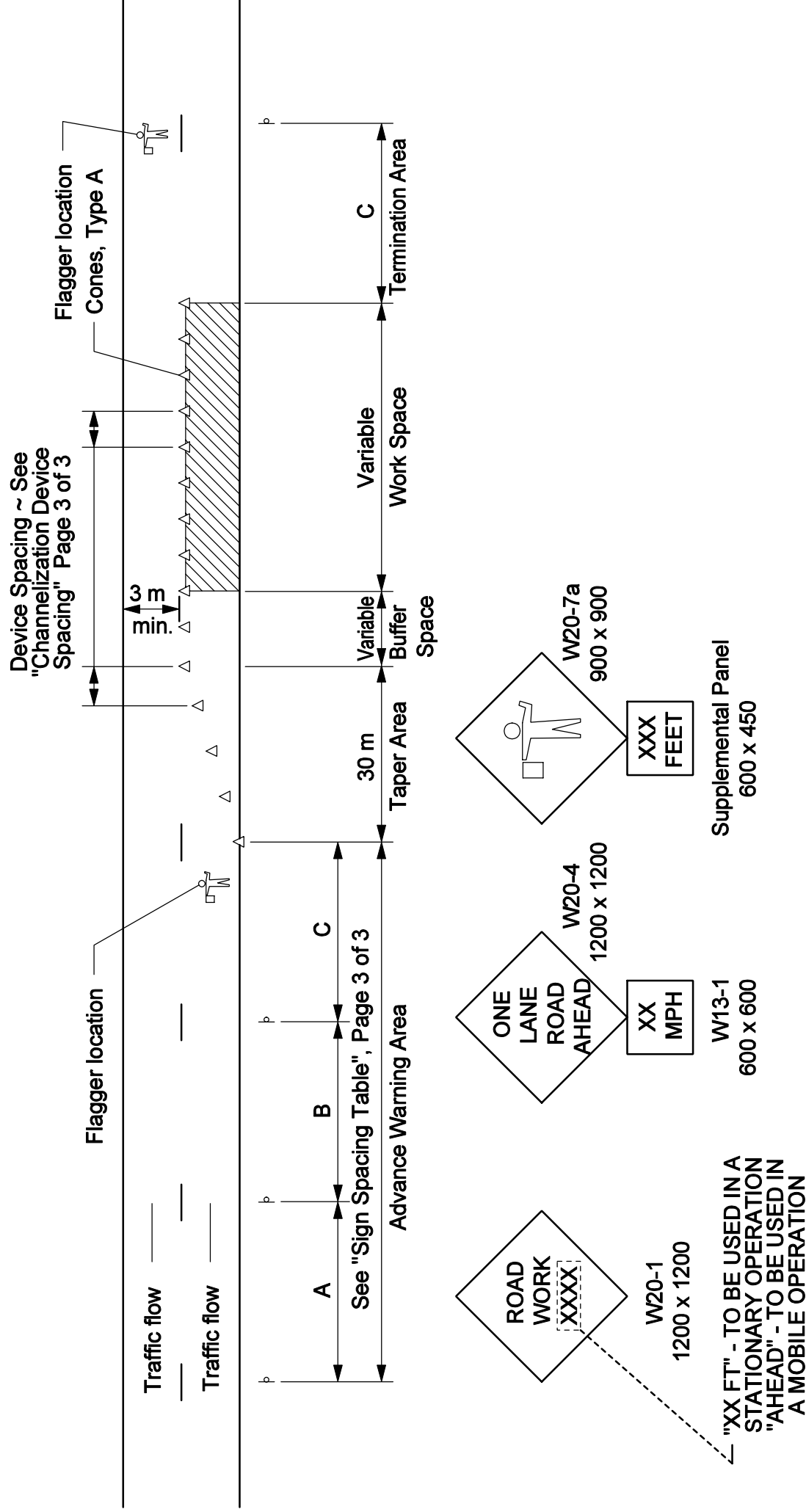
Temporary Centerline A temporary centerline shall be placed each day on all new pavement to be used by traffic. The temporary centerline, when specified of reflectorized traffic paint, shall conform to the standard marking patterns used for permanent markings.

Failure to apply a temporary centerline daily will result in suspension of paving until temporary markers are applied to all previously placed pavement.

¹ "Road Work Ahead" to be used in mobile operations and "Road Work xx ft" to be used in stationary operations as directed by the Resident.



TYPICAL -- PROJECT APPROACH SIGNING -- TWO WAY TRAFFIC



TYPICAL APPLICATION: TWO - WAY, TWO LANE ROADWAY,
CLOSING ONE LANE USING FLAGGERS

* Formulas for L are as follows:

For speed limits of 40 mph (60 km/h) or less:

$$L = \frac{WS^2}{60} \quad (L = \frac{WS^2}{155})$$

For speed limits of 45 mph (70 km/h) or greater:

$$L = WS \quad (L = \frac{WS}{1.6})$$

* Formulas for L are as follows:

A minimum of 5 channelization devices shall be used in the taper.

TYPE OF TAPER	TAPER LENGTH (L)*
Merging Taper	at least L
Shifting Taper	at least 0.5L
Shoulder Taper	at least 0.33L
One-Lane, Two-Way Traffic Taper	100 ft (30 m) maximum
Downstream Taper	100 ft (30 m) per lane

CHANNELIZATION DEVICE SPACING

The spacing of channelization devices shall not exceed a distance equal to 1.0 times the speed limit in mph when used for taper channelization, and a distance in feet of 2.0 times the speed limit in mph when used for tangent channelization.

GENERAL NOTES;

1. Final placement of signs and devices may be changed to fit field conditions as approved by the Resident.

SIGN SPACING TABLE			
Road Type	Distance Between Signs**		
	A	B	C
Urban 30 mph (50 km/h) or less	100 (30)	100 (30)	100 (30)
Urban 35 mph (55 km/h) and greater	350 (100)	350 (100)	350 (100)
Rural	500 (150)	500 (150)	500 (150)
Expressway / Urban Parkway	2,640 (800)	1,500 (450)	1000 (300)

**Distances are shown in feet (meters).

SUGGESTED BUFFER ZONE LENGTHS

Speed (mph)	Length (feet)	Speed (mph)	Length (feet)
20	115	40	325
25	155	45	360
30	200	50	425
35	250	55	495

SPECIAL PROVISION
SECTION 656
Temporary Soil Erosion and Water Pollution Control

The following is added to Section 656 regarding Project Specific Information and Requirements. All references to the Maine Department of Transportation Best Management Practices for Erosion and Sediment Control (a.k.a. Best Management Practices manual or BMP Manual) are a reference to the latest revision of said manual. The "Table of Contents" of the latest version is dated "1/19/00" (available at <http://www.state.me.us/mdot/mainhtml/bmp/bmpjan2000.pdf>.) **Procedures specified shall be according to the BMP Manual unless stated otherwise.**

Any and all references to "bark mulch" or "composted bark mix" shall be a reference to "Erosion Control Mix" in accordance with *Standard Specification, Section 619 - Mulch*.

Project Specific Information and Requirements

The following information and requirements apply specifically to this Project. The temporary soil erosion and water pollution control measures associated with this work shall be addressed in the SEWPCP.

- 1) This project is located within the marine estuary watershed, which has been classified as Class SB Estuary. The project is **NOT SENSITIVE** as defined by the MDOT BMP Manual, but due to the proximity to the resource, strict erosion and sediment controls are necessary.
- 2) Newly disturbed earth shall be mulched by the end of each workday. Mulch shall be maintained on a daily basis.
- 3) The SEWPCP shall describe the location and method of temporary erosion and sediment control for existing and proposed catch basins, outlet areas and culvert inlets and outlets.
- 4) **If water is flowing within the drainage system, the water shall be diverted to a stable area or conduit and work shall be conducted in the dry.** The Contractor's plan shall address when and where the diversions will be necessary.
- 5) Dust control items other than those under *Standard Specification, Section 637 – Dust Control*, if applicable, shall be included in the plan.
- 6) Permanent slope stabilization measures shall be applied within one week of the last soil disturbance.

SPECIAL PROVISION

SECTION 656

Temporary Soil Erosion and Water Pollution Control

- 7) Permanent seeding shall be done in accordance with *Standard Specification, Section 618 - Seeding* unless the Contract states otherwise.
- 8) Culvert inlet and outlet protection shall be installed within 48 hours of culvert installation, or prior to a storm event, whichever is sooner.
- 9) After November 1 the Contractor shall use winter stabilization methods, such as Erosion Control Mix as specified in *Standard Specification, Section 619 - Mulch*. If required, spring procedures for permanent stabilization shall also be described in the plan. Use of this product for over-winter temporary erosion control will be incidental to the contract and be paid for as part of Pay Item 656.75.
- 10) **DRAINAGE WORK SHALL NOT COMMENCE UNTIL AFTER APRIL 1ST OF ANY YEAR DUE TO HIGH GROUNDWATER LEVELS AND NUMEROUS INTERMITTENT STREAMS.** This date shall only be adjustable upon approval of both the Resident and a representative from the Water Resources Unit.
- 11) All disturbed ditches shall be stabilized by the end of each workday. Stabilization shall be maintained on a daily basis.
- 12) Erosion control blanket shall be installed in the bottoms of all ditches except where a stone lining is planned. Seed shall be applied prior to the placement of the blanket.
- 13) If check dams are used, they shall be constructed of stone in accordance with BMP Manual, Section 9. *Hay Bale Temporary Check Dams* **are not allowed**. Delete all reference to them in Section 9.
- 14) **CLEARING LIMIT LINES SHALL BE MINIMIZED.** Clearing shall be minimized as shown on the design plans. Areas to be cleared shall be discussed at the preconstruction field review.

SUPPLEMENTAL SPECIFICATION
SECTION 700
MATERIALS
(General Statement)

Add the following paragraphs to the General Statement:

The Contractor shall be required to submit to the Engineer, for inclusion into the project records, certification that new Work Zone Category 2 Devices meet National Cooperative Highway Research Program (NCHRP) Report 350 guidelines. Work Zone Category 2 Devices include portable sign stands (with signs), Type-1, Type-2, and Type-3 barricades, vertical panels, intrusion alarms, and other work zones devices under 45 kg (100 lb). As of October 1, 2000 any new Work Zone Category 2 Devices purchased by the Contractor shall meet NCHRP Report 350 guidelines.

Crash test and other relevant information is available on the FHWA Office of Highway Safety's website: http://safety.fhwa.gov/programs/roadside_hardware.htm.

Contractor's will be allowed to use current Work Zone Category 2 Devices until the end of their service life.

Permits & Cultural Resources Unit

PIN #: 9720.00

Location: Castine/Penobscot

Permit Member: Laurie Rowe

Photographs ☐

Database/Projex ☒

Package to ENV Coordinator: 9/17/03

☒ HISTORIC AND CULTURAL RESOURCES

MHPC Historic Resources

N/A ☐

Applicable ☒

Approved ☒

MOA ☐

MHPC Archeological Resources

N/A ☐

Applicable ☒

Approved ☒

MOA ☐

Tribal Consultation

N/A ☒

Applicable ☐

Approved ☐

☒ 4(f) and 6(f)

Section 4(f)

N/A ☒

Applicable ☐

Approved ☐

LAWCON 6(f)

N/A ☒

Applicable ☐

Approved ☐

☒ Maine Department of Environmental Protection (MDEP) Site Location of Development

N/A ☒

Applicable ☐

Approved ☐

☒ Local Zoning, Title 30-A, Section 4325-6.

Is the project something other than the highway and bridge system, such as a maintenance lot, building/parking facility? Yes

☐ No ☒. If no, the project is exempt.

If yes, continue. Does the town in which the project is located have a comprehensive plan consistent with the Growth Management Program? Yes ☐ No ☐. If no, the project is exempt.

If yes, local zoning ordinances and/or permits are needed.

Approved ☐

☒ Maine Department of Inland Fisheries and Wildlife (MDIFW) Essential Habitat

Eagle Nest

N/A ☒

Applicable ☐

Approved ☐

Piping Plover

N/A ☒

Applicable ☐

Approved ☐

Roseate Tern

N/A ☒

Applicable ☐

Approved ☐

☒ United States Fish and Wildlife Service (USFWS), Migratory Bird Act

N/A ☒

Applicable ☐

☒ Maine Department of Conservation/ Public Lands, Submerged Land Lease

N/A ☒

Applicable ☐

☒ Land Use Regulation Commission (LURC) ☒ Not Applicable

No permit ☐

Notice ☐

Permit ☐

Approved ☐

Approved ☐

☒ Maine Department of Environmental Protection (MDEP), Natural Resource Protection Act

No permit required ☐

Exempt ☐

PBR ☒

Tier 1 ☐

Tier 2 ☐

Tier 3 ☐

(Must use erosion and sediment control and not block fish passage.)

Approved ☒

Approved ☐

Approved ☐

Approved ☐

☒ Army Corps of Engineers (ACOE), Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act.

No permit required ☐

Category 1-NR ☒

Category 2 ☐

Category 3 ☐

Approved ☒

Approved ☐

Approved ☐

☒ IN-WATER TIMING RESTRICTIONS: 105 Special Provision ☐ n/a ☒

Dates instream work is allowed: No Instream work on this project

☒ Special Provision 656, Erosion Control Plan

* Boxes marked in red indicate items that are attached and need to be placed in the contract by the Project Manager.

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)
PERMIT BY RULE NOTIFICATION FORM
(For use with DEP Regulation, Chapter 305)

■ MDOT PIN: 9720.00

Name of Applicant: State of Maine Department of Transportation Name of Contact: David Gardner
Mailing Address: 16 Station State House Town/City: Augusta State: Me. Zip Code: 04330-0016
Daytime Telephone #: (207)-624-3105 Name of Wetland, Water Body or Stream: Unknown

Detailed Directions to Site: Project begins at the beginning of Rte 166 in Castine at the intersection of Maine Maritime Academy Rd and follows Rte 166 until the intersection of Rte 166A. It then continues on Rte 166A and then connects again with Rte 166 until Rte 175

Town/City: Castine/Penobscot

Map #: N/A

Lot #: N/A

County: Hancock

Description of Project: Project consist of 11' travel ways and 3' gravel shoulders which will be paved. Reclaiming and then laying new pavement down, cleaning out ditches, replacing cross pipes, and installing some curbing. The project will be performed in accordance with erosion control measures conforming with the latest versions of the *State of Maine Department of Transportation Standard Specifications for Highways and Bridges* and the *Department of Transportation's Best Management Practices for Erosion and Sediment Control*.

Part of a larger project? ☐ Yes ☒ No

(CHECK ONE) This project... ☒ does ☐ does not ...involve work below mean low water.

I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Regulation, Chapter 305. I have a copy of PBR Sections checked below. I have read and will comply with all of the standards.

- | | | |
|---|---|---|
| <input type="checkbox"/> Sec. (2) Soil Disturbance | <input type="checkbox"/> Sec. (8) Shoreline stabilization | <input type="checkbox"/> Sec. (14) Piers, Wharves & Pilings |
| <input type="checkbox"/> Sec. (3) Intake Pipes | <input type="checkbox"/> Sec. (9) Utility Crossing | <input type="checkbox"/> Sec. (15) Public Boat Ramps |
| <input type="checkbox"/> Sec. (4) Replacement of Structures | <input type="checkbox"/> Sec. (10) Stream Crossing | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects |
| <input type="checkbox"/> Sec. (5) REPEALED | <input checked="" type="checkbox"/> Sec. (11) State Transport. Facilities | <input type="checkbox"/> Sec. (17) Transfers/Permit Extension |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Vegetation | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas | <input type="checkbox"/> Sec. (18) Maintenance Dredging |
| <input type="checkbox"/> Sec. (7) Outfall Pipes | <input type="checkbox"/> Sec. (13) F&W Creation/Enhance/Water Quality Improvement | |

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules. I also understand that ***this permit is not valid until approved by the Department or 14 days after receipt by the Department, whichever is less.***

I have attached all of the following required submittals. **NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS:**

- A \$50 (non-refundable) payment shall be done by internal billing.
- Attach a U.S.G.S. topo map or Maine Atlas & Gazetteer map with the project site clearly marked.
- ☐ Attach photographs showing existing site conditions (unless not required under standards).

Signature of Applicant: _____

John E. Dority, Chief Engineer

Date: _____

Oct 31, 2002

Keep the bottom copy as a record of permit. Send the form with attachments via certified mail to the Maine Dept. of Environmental Protection **at the appropriate regional office listed below.** The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. **Work carried out in violation of any standard is subject to enforcement action.**

AUGUSTA DEP STATE HOUSE STATION 17 AUGUSTA, ME 04333-0017 (207)287-2111 PORTLAND DEP
312 CANCO ROAD PORTLAND, ME 04103 (207)822-6300 BANGOR DEP 106 HOGAN ROAD BANGOR, ME
04401 (207)941-4570 PRESQUE ISLE DEP 1235 CENTRAL DRIVE PRESQUE ISLE, ME 04769 (207)764-0477

OFFICE USE ONLY
PBR # FP

Ck.#

Date

Staff

Acc. Date

Staff

Def. Date

After Photos

Chapter 305: PERMIT BY RULE Section 11
State Transportation Facilities

- 1. Introduction.** A "permit by rule" or "PBR", when approved by the Department of Environmental Protection (DEP), is an approval for an activity that requires a permit under the Natural Resources Protection Act (NRPA). Only those activities described in this chapter may proceed under the PBR process. A PBR activity will not significantly affect the environment if carried out in accordance with this chapter, and generally has less of an impact on the environment than an activity requiring an individual permit. A PBR satisfies the Natural Resources Protection Act (NRPA) permit requirement and Water Quality Certification requirement.

If a proposed activity is not described in this chapter, or will not be conducted in accordance with the standards of this chapter, the applicant must obtain an individual permit prior to beginning the activity.

- A. Location of activity.** The location of an activity may affect whether an activity qualifies for PBR, and whether review by the Department of Inland Fisheries and Wildlife is required.

- (1) Type of resource. For some types of activities, the availability of a PBR is affected by the type of natural resource in or adjacent to which the activity is proposed. For example, an applicant proposing an activity consisting of "Movement of rocks or vegetation" may receive a PBR only if the activity will take place in a great pond, river, stream or brook. Limitations concerning the location of activities are addressed in the "Applicability" provision in each section of this chapter.
- (2) Essential habitat. Essential habitats include areas critical to the survival of threatened and endangered species such as the bald eagle, least tern, roseate tern, and piping plover. If the activity is located in essential habitat, such as near an eagle nesting site, a PBR is only available if the applicant obtains written approval from the Department of Inland Fisheries and Wildlife (IF&W). This approval from IF&W must be submitted to the DEP with the PBR notification form, and the applicant must follow any conditions stated in the IF&W approval.

NOTE: Maps showing areas of essential habitat are available from the Department of Inland Fisheries and Wildlife regional headquarters, municipal offices, the Land Use Regulation Commission (for unorganized territories) and DEP regional offices. If the activity is located in essential habitat, IF&W must be contacted to request and obtain a "certification of review and approval".

- B. Notification.** The applicant must file notice of the activity with the DEP prior to beginning work on the activity. The notification must be on a form provided by the DEP and must include any submissions required in this chapter. The applicant must keep a copy to serve as the permit.

The notification form must be sent to the DEP by certified mail (return receipt requested), or hand delivered to the DEP and date stamped by the department.

C. Effective period

- (1) Beginning of period. The PBR becomes effective 14 calendar days after the DEP receives the notification form, unless the DEP approves or denies the PBR prior to that date. If the DEP does not speak with or write to the applicant within this 14 day period regarding the PBR notification, the applicant may proceed to carry out the activity.

There are three exceptions regarding the effective date of an approved PBR:

- (a) Activities listed in Section 10 (Stream crossings) occurring in association with forest management are exempt from the 14 day waiting period.
- (b) Activities listed in Section 2 (Soil disturbance) and Section 10 (Stream crossings) performed or supervised by individuals currently certified in erosion control practices by the DEP are exempt from the 14 day waiting period. To be certified in erosion control practices, an individual must successfully complete all course requirements of the Voluntary Contractor Certification Program administered by the DEP's Nonpoint Source Training and Resource Center.
- (c) Activities that are part of a larger project requiring a permit under the Site Location of Development or the Storm Water Management Acts may not proceed until any required permit under those laws is obtained.

NOTE: Activities that are part of a larger project may require other permits from the DEP also. These other laws may prohibit the start of construction of any part of the project unless a permit under that law is obtained. In these cases, while not a violation of this rule, starting work on a PBR approved activity would be a violation of those other applicable laws.

- (2) End of period. The PBR is generally effective for 2 years from the date of approval, except that a PBR for "Replacement of structures" under Section 4 is effective for 3 years.

NOTE: Activities that qualify under this chapter may need to meet other local, state and federal requirements. Examples -- (1) If an activity extends below the low water line of a lake, coastal wetland or international boundary water, the applicant should contact the Bureau of Parks and Lands (287-3061) concerning possible lease or easement requirements, or (2) If an activity will involve work below the mean high water line in navigable waters of the United States, the applicant should contact the Army Corps of Engineers (623-8367).

D. Discretionary authority. Notwithstanding compliance with the PBR applicability requirements and standards set forth in this chapter, the DEP may require an individual permit application to be filed in any case where credible evidence indicates that the activity:

- (1) May violate the standards of the NRPA (38 M.R.S.A. Section 480-D);
- (2) Could lead to significant environmental impacts, including cumulative impacts; or
- (3) Could adversely impact a resource of special concern.

If an individual permit is required pursuant to this subsection, the DEP shall notify the applicant in writing within the 14 calendar day waiting period described in sub-section (C) above. When the DEP notifies an applicant that an individual permit is required, no work may be conducted unless and until the individual permit is obtained.

E. Violations. A violation of law occurs when a person, or his or her agent, performs or causes to be performed any activity subject to the NRPA without first obtaining a permit from the DEP, or acts contrary to the provisions of a permit. The person, his or her agent, or both, may be held

responsible for the violation. Commonly, the "person" is the landowner, and the "agent" is the contractor carrying out the activity. A violation occurs when:

- (1) An activity occurs that is not allowed under PBR, whether or not a PBR notification form has been filed with and/or approved by the DEP;
- (2) An activity occurs that is allowed under PBR, but a PBR for the activity has not become effective prior to the beginning of the activity; or
- (3) An activity occurs that is allowed under PBR and a PBR for the activity is in effect, but the standards specified in this chapter are not met.

See the "applicability" provision under each activity for rules concerning what activities are allowed under PBR. A PBR is only valid for the person listed on the notification form, or for his or her agent.

Each day that a violation occurs or continues is considered a separate offense. Violations are subject to criminal penalties and civil penalties of not less than \$100 nor more than \$10,000 for each day of that violation (38 M.R.S.A. Section 349).

NOTE: A local Code Enforcement Officer (CEO) may take enforcement action for a violation of the Natural Resources Protection Act if he or she is authorized to represent a municipality in District Court, and he or she has been certified as familiar with court procedures, 30-A M.R.S.A. Section 4452(7).

Chapter 305 Section 11**State transportation facilities****A. Applicability**

- (1) This section applies to the maintenance, repair, reconstruction, rehabilitation, replacement or minor construction of a State Transportation Facility carried out by, or under the authority of, the Maine Department of Transportation or the Maine Turnpike Authority, including any testing or preconstruction engineering, and associated technical support services.
- (2) This section does not apply to an activity within a coastal sand dune system.

NOTE: The construction of a transportation facility other than roads and associated facilities may be subject to the Storm Water Management Law, 38 M.R.S.A. Section 420-D.

B. Standards

- (1) Photographs of the area to be altered by the activity must be taken before work on the site begins. The photographs must be kept on file and be made available at the request of the DEP.
- (2) The activity must be reviewed by the Department of Inland Fisheries and Wildlife, the Department of Marine Resources, the Atlantic Salmon Authority, and the DEP's Division of Environmental Assessment prior to the notification being filed with the DEP. The activity must be performed according to any recommendations from these authorities.
- (3) The activity must be performed in accordance with erosion control measures conforming with the State of Maine Department of Transportation Standard Specifications for Highways and Bridges Revision of April 1995 and with the Department of Transportation's Best Management Practices for Erosion and Sediment Control, September 1997.

NOTE: Guidance on the use of erosion control best management practices can be obtained from the on site Construction Manager.

- (4) Alignment changes may not exceed a distance of 200 feet between the old and new center lines in any natural resource.
- (5) The activity may not alter more than 300 feet of shoreline (both shores added together) within a mile stretch of any river, stream or brook, including any bridge width or length of culvert.
- (6) The activity may not alter more than 150 feet of shoreline (both shores added together) within a mile stretch of any outstanding river segment identified in 38 M.R.S.A. 480-P, including any bridge width or length of culvert.
- (7) The activity must minimize wetland intrusion. The activity is exempt from the provisions of Chapter 310, the Wetland Protection Rules, if the activity alters less than 15,000 square feet of natural resources per mile of roadway (centerline measurement) provided that the following impacts are not exceeded within the 15,000 square foot area:

- (a) 1,000 square feet of coastal wetland consisting of salt tolerant vegetation or shellfish habitat; or
- (b) 5,000 square feet of coastal wetland not containing salt tolerant vegetation or shellfish habitat; or
- (c) 1,000 square feet of a great pond.

All other activities must be performed in compliance with all sections of Chapter 310, the Wetland Protection Rules, except 310.2(C), 5(A), 9(1), 9(B) and 9(C).

- (8) The activity may not permanently block any fish passage in any watercourse containing fish. The applicant must improve passage beyond what restriction may already exist unless the Department of Inland Fisheries and Wildlife, the Department of Marine Resources, the Atlantic Salmon Authority and the DEP's Division of Environmental Assessment concur that the improvement is not necessary.
- (9) Rocks may not be removed from below the normal high water line of any coastal wetland, freshwater wetland, great pond, river, stream or brook except to the minimum extent necessary for completion of work within the limits of construction.
- (10) If work is performed in a river, stream or brook that is less than three feet deep at the time and location of the activity, with the exception of culvert installation, the applicant must divert flow away from the activity while work is in progress.
 - (a) Diversion may be accomplished by the use of stable, inert material. No more than two thirds (2/3) of stream width may be diverted at one time.
 - (b) Any material used to divert water flow must be completely removed upon completion of the activity, and the stream bottom must be restored to its original condition.
 - (c) A pump may be operated, where necessary, for a temporary diversion. The pump outlet must be located and operated such that erosion or the discharge of sediment to the water is prevented.

NOTE: Guidance on the appropriate location of a diversion and materials which should be used for a stream diversion can be obtained from the on site Construction Manager.

- (11) Wheeled or tracked equipment may not operate in the water. Equipment operating on the shore may reach into the water with a bucket or similar extension. Equipment may cross streams on rock, gravel or ledge bottom.
- (12) All wheeled or tracked equipment that must travel or work in a vegetated wetland area must travel and work on mats or platforms.
- (13) Any debris or excavated material must be stockpiled either outside the wetland or on mats or platforms. Hay bales or silt fence must be used, where necessary, to prevent sedimentation. Any debris generated during the activity must be prevented from washing downstream and must be removed from the wetland or water body. Disposal of debris must be in conformance with the Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Section 1301 et seq.

- (14) Work below the normal high water line of a great pond, river, stream or brook must be done at low water except for emergency work or work agreed to by the resource agencies listed in paragraph 2 above. Measures, such as a silt boom or staked fencing, must be employed to reduce and isolate turbidity.
- (15) Perimeter controls must be installed before the work starts. Disturbance of natural resources beyond the construction limits shown on the plans is not allowed under this rule.

NOTE: Guidance on the location of construction limits can be obtained from the on site Construction Manager.

- (16) The use of untreated lumber is preferred. Lumber pressure treated with chromated copper arsenate (CCA) may be used, provided it is cured on dry land in a manner that exposes all surfaces to the air for a period of at least 21 days prior to construction. Wood treated with creosote or pentachlorophenol may not be used where it will contact water.
- (17) A temporary road for equipment access must be constructed of crushed stone, blasted ledge, or similar materials that will not cause sedimentation or restrict fish passage. Such roads must be completely removed at the completion of the activity. In addition, any such temporary roads which are in rivers, streams or brooks, must allow for a passage of stormwater flows associated with a 10-year storm.
- (18) Soil may not be disturbed during any period when soils are saturated due to rain or snow melt, except as necessary to protect work in progress or as required for bridge maintenance activities. Areas where soils are saturated (i.e. water drips from the soil when squeezed by hand, or the soil is capable of being rolled into a rod 1/8th inch in diameter that does not crumble) must be immediately mulched if they are disturbed.
- (19) Disturbed soil must be protected within one week from the time it was last actively worked, and prior to any storm event, using temporary or permanent measures such as the placement of riprap, sod, mulch, erosion control blankets, or other comparable measures.
- (20) Hay bale or straw mulch, where used, must be applied at a rate of at least one bale per 500 square feet (1 to 2 tons per acre).
- (21) If mulch is likely to be moved because of steep slopes or wind exposure, it must be anchored with netting, peg and twine, binder or other suitable method and must be maintained until a catch of vegetation is established over the entire disturbed area.
- (22) In addition to the placement of riprap, sod, erosion control blankets or mulch, additional steps must be taken where necessary to prevent sedimentation of the water. Evidence of sedimentation includes visible sheet, rill or gully erosion, discoloration of water by suspended particles and/or slumping of banks. Silt fences, staked hay bales and other sedimentation control measures, where planned for, must be in place prior to the commencement of an activity, but must also be installed whenever necessary to prevent erosion and sedimentation.

NOTE: Guidance on the location and proper installation of erosion control measures can be obtained from the on site Construction Manager.

- (23) Temporary erosion control measures must be maintained and inspected weekly until the site is permanently stabilized with vegetation or other permanent control measures. Erosion control measures must also be inspected immediately prior to and following storms.
- (24) Permanent erosion control measures protecting all disturbed areas must be implemented within 30 days from the time the areas were last actively worked, or for fall and winter activities by the following June 15, except where precluded by the type of activity (e.g. riprap, road surfaces, etc.). The permanent erosion control measures must be maintained.
- (25) The applicant shall immediately take appropriate measures to prevent erosion or sedimentation from occurring or to correct any existing problems, regardless of the time of year.
- (26) Non-native species may not be planted in restored areas.
- (27) Disposal of debris must be in conformance with Maine Hazardous Waste, Septage and Solid Waste Management Act, 38 M.R.S.A. Sections 1301 et seq.
- (28) Disturbance of vegetation must be avoided, if possible. Where vegetation is disturbed outside of the area covered by any road or structure construction, it must be reestablished immediately upon completion of the activity and must be maintained.
- (29) A vegetated area at least 25 feet wide must be established and maintained between any new stormwater outfall structure and the high water line of any open water body. A velocity reducing structure must be constructed at the outlet of the stormwater outfall that will create sheet flow of stormwater, and prevent erosion of soil within the vegetated buffer. If the 25 foot vegetated buffer is not practicable, the applicant must explain the reason for a lesser setback in writing. Approval from the DEP must be in writing and any recommendations must be incorporated into the activity.

C. Definitions. The following terms, as used in this chapter, have the following meanings, unless the context indicates otherwise:

- (1) Diversion. A rerouting of a river, stream or brook to a location outside of its established channel.
- (2) Fill. a. (verb) To put into or upon, supply to, or allow to enter a water body or wetland any earth, rock, gravel, sand, silt, clay, peat, or debris; b. (noun) Material, other than structures, placed in or immediately adjacent to a wetland or water body.
- (3) Floodplain wetlands. Freshwater wetlands that are inundated with flood water during a 100-year flood event based on flood insurance maps produced by the Federal Emergency Agency or other site specific information.
- (4) Riprap. Rocks that are fit into place, usually without mortar, on a slope as defined in the State of Maine, Department of Transportation, Standard Specifications for Highway and Bridges, revision of April 1995.

Permit No: GP-39

Effective Date: Sept. 29, 2000

Expiration Date: Sept. 29, 2005

Applicant: General Public, State of Maine

**DEPARTMENT OF THE ARMY
PROGRAMMATIC GENERAL PERMIT
STATE OF MAINE**

The New England District of the U.S. Army Corps of Engineers hereby issues a programmatic general permit (PGP) that expedites review of minimal impact work in coastal and inland waters and wetlands within the State of Maine. Activities with minimal impacts, as specified by the terms and conditions of this general permit and on the attached DEFINITION OF CATEGORIES sheets, are either non-reporting (provided required local and state permits are received), or are reporting, to be screened by the Corps and Federal Resource Agencies for applicability under the general permit. This general permit does not affect the Corps individual permit review process or activities exempt from Corps jurisdiction.

Activities Covered: work and structures that are located in, or that affect, navigable waters of the United States (regulated by the Corps under Section 10 of the Rivers and Harbors Act of 1899) and the discharge of dredged or fill material into waters of the United States (regulated by the Corps under Section 404 of the Clean Water Act), and the transportation of dredged material for the purpose of disposal in the ocean (regulated by the Corps under Section 103 of the Marine Protection, Research and Sanctuaries Act).

PROCEDURES:

A. State Approvals

For projects authorized pursuant to this general permit that are also regulated by the State of Maine, the following state approvals are also required and must be obtained in order for this general permit authorization to be valid (applicants are responsible for ensuring that all required state permits and approval have been obtained):

- (a) Maine Department of Environmental Protection (DEP): Natural Resources Protection Act permit, including permit-by-rule and general permit authorizations; Site Location and Development Act permit; and Maine Waterway Development and Conservation Act.
- (b) Maine Department of Conservation: Land Use Regulation Commission (LURC) permit.
- (c) Maine Department of Marine Resources: Lease.
- (d) Bureau of Public Lands, Submerged Lands: Lease.

Note that projects not regulated by the State of Maine (e.g., seasonal floats or moorings) may still be authorized by this general permit.

B. Corps Authorizations : Category I (Non-Reporting)

Work in Maine subject to Corps jurisdiction that meets the definition of Category I on the attached DEFINITION OF CATEGORIES sheets and that meets all of this permit's other conditions, does not require separate application to the Corps of Engineers. If the State or the Corps does not contact the applicant for PBRs and Tier One permits during the State's Tier One 30-day review period, Corps approval may be assumed and the project may proceed. Refer to the Procedures Section at Paragraph E below for additional information regarding screening.

Note that the review thresholds under Category I apply to single and complete projects only (see special condition 5). Also note that Category I does not apply to projects occurring in a component of, or within 0.25 miles up and downstream of the main stem or tributaries of a river segment of the National Wild and Scenic River System (see condition 11, and page 9 for the listed rivers in Maine).

There are also restrictions on other national lands or concerns which must be met in order for projects to be eligible for authorization under this PGP. Refer to special conditions 6-13 under Paragraph F below.

Work that is not regulated by the State of Maine, but that is subject to Corps jurisdiction, is eligible for Corps authorization under this PGP in accordance with the review thresholds and conditions contained herein.

Although Category I projects are non-reporting, the Corps reserves the right to require screening or an individual permit review if there are concerns for the aquatic environment or any other factor of the public interest (see special condition 4 on Discretionary Authority). The Corps review or State/Federal screening process may also result in project modification, mitigation or other special conditions necessary to minimize impacts and protect the aquatic environment as a requirement for PGP approval.

C. Corps Authorization: Category II (Reporting – requiring screening)

APPLICATION PROCEDURES

For projects that do not meet the terms of Category I (see DEFINITION OF CATEGORIES sheets), the Corps, State, and Federal Resource Agencies will conduct joint screening meetings to review applications. If projects are concurrently regulated by the DEP or LURC, applicants do not need to submit separate applications to the Corps. For projects not regulated by DEP or LURC, applicants must submit an application to the Corps Maine Project Office for a case-by-case determination of eligibility under this general permit (Category II). **Category II projects may not proceed until written notification is received from the Corps.**

Category II projects which occur in a component of, or within 0.25 mile up or downstream of the main stem or tributaries of a river segment of the National Wild and Scenic River System, will be coordinated with the National Park Service (see special condition 11, and page 9 for listed rivers in Maine).

There are also restrictions on other national lands or concerns which must be met in order for projects to be eligible for authorization under this PGP. Refer to special conditions 6-14 under Paragraph E below.

Category II applicants shall submit a copy of their application materials to the Maine Historic Preservation Commission and/or applicable Indian tribe(s) at the same time, or before, they apply to the DEP, LURC, or the Corps so that the project can be reviewed for the presence of historic/archaeological resources in the project area that may be affected by the proposed work. **Applications to the DEP or the Corps should include information to indicate that this has been done (applicant's statement or copy of cover letter to Maine Historic Preservation Commission and/or Indian tribe(s)).**

The Corps may require additional information on a case-by-case basis as follows:

- (a) purpose of project;
- (b) 8 1/2" by 11" plan views of the entire property including property lines and project limits with existing and proposed conditions (**legible, reproducible plans required**);
- (c) wetland delineation for the site, information on the basis of the delineation, and calculations of waterway and wetland impact areas (see special condition 2);
- (d) typical cross-section views of all wetland and waterway fill areas and wetland replication areas;
- (e) delineation of submerged aquatic vegetation, e.g., eel grass beds, in tidal waters;
- (f) area, type and source of fill material to be discharged into waters and wetlands, including the volume of fill below ordinary high water in inland waters and below the high tide line in coastal waters;
- (g) mean low, mean high water and high tide elevations in navigable waters;
- (h) limits of any Federal navigation project in the vicinity and State Plane coordinates for the limits of the proposed work closest to the Federal project;
- (i) on-site alternatives analysis (contact Corps for guidance);
- (j) identify and describe potential impacts to Essential Fish Habitat (contact Corps for guidance);
- (k) for dredging projects, include:
 - 1) the volume of material and area in square feet to be dredged below mean high water,
 - 2) existing and proposed water depths,
 - 3) type of dredging equipment to be used,
 - 4) nature of material (e.g., silty sand),

- 5) any existing sediment grain size and bulk sediment chemistry data for the proposed or any nearby projects,
- 6) information on the location and nature of municipal or industrial discharges and occurrences of any contaminant spills in or near the project area,
- 7) location of the disposal site (include locus sheet),
- 8) shellfish survey, and
- 9) sediment testing, including physical, chemical and biological testing. For projects proposing open water disposal, applicants are encouraged to contact the Corps as early as possible regarding sampling and testing protocols.

The Corps may request additional information. Dredging applicants may be required to conduct a shellfish and/or eel grass survey and sediment testing, including physical, chemical and biological testing. Sediment sampling and testing plans should be prepared or approved by the Corps before the samples are collected.

STATE-FEDERAL SCREENING PROCEDURES:

The Corps intends to utilize the application information required by the State for its regulatory program to the maximum extent practicable and the Corps normally will not be interacting with an applicant who is concurrently making application to the DEP or LURC. Projects not regulated by the State, but needing Corps of Engineers approval, **must apply directly to the Corps**. The joint screening meeting for Category II projects will occur regularly at the Corps or State offices and will involve representatives from the DEP, the Corps, the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service.

The Corps and Federal Resource Agencies will classify the project within the State's review period, not to exceed 60 days, as: 1) approvable under the PGP as proposed; 2) needs additional information, including possible project modification, mitigation or other special conditions to minimize impacts; or 3) exceeds the terms or conditions of the PGP, including the minimal effects requirement, and an individual permit review will be required. In addition, the Corps retains the ability to exercise its discretionary authority and require an individual permit, irrespective of whether the terms and conditions of this general permit are met, based on concerns for the aquatic environment or any factor of the public interest (see special condition 4 on Discretionary Authority). All Category II projects must receive written approval from the Corps before work can proceed. If the project is not approvable as proposed, the DEP, LURC, or the Corps will contact the applicant to discuss the concerns raised. If the applicant is unable to resolve the concerns, the Corps, independently or at the request of the Federal Resource Agencies, will require an individual permit for the project. The applicant will be notified of this in writing, along with information about submitting the necessary application materials. The comments from the Federal Resource Agencies to the Corps may be verbal initially, and must be made within 10 working days of the screening meeting. These comments must be confirmed in writing within 10 calendar days of the verbal response if the Resource Agency(ies) will request an individual permit. The Federal Resource Agency's comments must reflect a concern within their area of expertise, state the species or resources that could be impacted by the project, and describe the impacts that either individually or cumulatively will be more than minimal.

MINERALS MANAGEMENT SERVICE (MMS) REVIEW

For Category II projects which involve construction of solid fill structures or discharge of fills along the coast which may extend the coastline or baseline from which the territorial sea is measured, coordination between the Corps and Minerals Management Service (MMS), Continental Shelf (OCS) Survey Group, will be needed (pursuant to the Submerged Lands Act, 43 U.S.C., Section 1301-1315, 33 CFR 320.4(f)). During the screening period, the Corps will forward project information to MMS for their review. MMS will coordinate their determination with the Department of the Interior (DOI) Solicitor's Office. The DOI will have 15 calendar days from the date MMS is in receipt of project information to determine if the baseline will be affected. No notification to the Corps within 15 day review period will constitute a "no affect" determination. Otherwise, the solicitor's notification to the Corps may be verbal but must be followed with a written confirmation within 10 business days from the date of the verbal notification. This procedure will be eliminated if the State of Maine provides a written waiver of interest in any increase in submerged lands caused by a change in the baseline resulting from solid fill structure or fills authorized under this general permit.

D. Corps Authorization: Category III (Individual Permit)

Work that is in the INDIVIDUAL PERMIT category on the attached DEFINITION OF CATEGORIES sheets, or that does not meet the terms and conditions of this general permit, will require an application for an individual permit from the Corps of Engineers (see 33 CFR Part 325.1). The screening procedures outlined above will only serve to delay project review in such cases. The applicant should submit the appropriate application materials (including the Corps application form) at the earliest possible date. General information and application forms can be obtained at (207) 623-8367 (Maine Field Office), (800) 343-4789, or (800) 362-4367 in Massachusetts. Individual water quality certification and coastal zone management consistency concurrence will be required from the State of Maine before Corps permit issuance.

E. Programmatic General Permit Conditions:

The following conditions apply to activities authorized under the PGP, including all Category I (non-reporting) and Category II (reporting – requiring screening) activities:

GENERAL REQUIREMENTS:

1. **Other Permits.** Authorization under this general permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
2. **Applicability of this general permit shall be evaluated with reference to Federal jurisdictional boundaries.** Applicants are responsible for ensuring that the boundaries used satisfy the federal criteria defined at 33 CFR 328-329.
3. **Minimal Effects.** Projects authorized by this general permit shall have minimal individual and cumulative adverse environmental impacts as determined by the Corps.

4. **Discretionary Authority.** Notwithstanding compliance with the terms and conditions of this permit, the Corps of Engineers retains discretionary authority to require review for an individual permit based on concerns for the aquatic environment or for any other factor of the public interest. This authority is invoked on a case-by-case basis whenever the Corps determines that the potential consequences of the proposal warrant individual review based on the concerns stated above. This authority may be invoked for projects with cumulative environmental impacts that are more than minimal or if there is a special resource or concern associated with a particular project that is not already covered by the remaining conditions of the PGP and that warrants greater review.

Whenever the Corps notifies an applicant that an individual permit may be required, authorization under this general permit is void and no work may be conducted until the individual Corps permit is obtained or until the Corps notifies the applicant that further review has demonstrated that the work may proceed under this general permit.

5. **Single and Complete Projects.** This general permit shall not be used for piecemeal work and shall be applied to single and complete projects. All components of a single project and/or all planned phases of multi-phased projects shall be treated together as constituting one single and complete project (e.g., subdivisions should include all work such as roads, utilities, and lot development). This general permit shall not be used for any activity that is part of an overall project for which an individual permit is required.

NATIONAL CONCERNS:

6. **St. John/St. Croix Rivers.** This covers work within the Saint John and Saint Croix River basins that requires approval of the International Joint Commission. This includes any temporary or permanent use, obstruction or diversion of international boundary waters which could affect the natural flow or levels of waters on the Canadian side of the line, as well as any construction or maintenance of remedial works, protective works, dams, or other obstructions in waters downstream from boundary waters when the activity could raise the natural level of water on the Canadian side of the boundary.
7. **Historic Properties.** Any activity authorized by this general permit shall comply with Section 106 of the National Historic Preservation Act. Information on the location and existence of historic resources can be obtained from the Maine Historic Preservation Commission and the National Register of Historic Places. Federally recognized tribes (Penobscots, Passamaquoddys, Micmacs, and Maliseets) may know of the existence of other sites that may be of significance to their tribes. See page 14 for historic properties contacts.

Applicants with projects which will undergo the screening process (Category II) shall submit a copy of their application materials, with the name and address of the applicant clearly indicated, to the Maine Historic Preservation Commission, 55 Capitol Street, State House Station 65, Augusta, Maine 04333, and to the applicable tribe(s) to be reviewed for the presence of historic and/or archaeological resources in the permit area that may be affected by the proposed work. The Corps will then be notified by the Commission and/or

Tribe within 10 days if there are State and/or tribal concerns that the proposed work will have an effect on historic resources. The applicant should include with their application to the State or the Corps either a copy of their cover letter or a statement of having sent their application material to the Commission and Tribe(s).

If the permittee, either prior to construction or during construction of the work authorized herein, encounters a previously unidentified archaeological or other cultural resource, within the area subject to Department of the Army jurisdiction, that might be eligible for listing in the National Register of Historic Places, he/she shall stop work and immediately notify the District Engineer and the Maine Historic Preservation Commission and/or applicable Tribe(s).

8. **National Lands.** Activities authorized by this general permit shall not impinge upon the value of any National Wildlife Refuge, National Forest, or any area administered by the National Park Service.
9. **Endangered Species.** No activity is authorized under this general permit which
 - may affect a threatened or endangered species or a species proposed for such designation as identified under the Federal Endangered Species Act (ESA),
 - is likely to destroy or adversely modify the critical habitat or proposed critical habitat of such species,
 - would result in a 'take' of any threatened or endangered species of fish or wildlife, or
 - would result in any other violation of Section 9 of the ESA protecting threatened or endangered species of plants.

Applicants shall notify the Corps if any listed species or critical habitat, or proposed species or critical habitat, is in the vicinity of the project and shall not begin work until notified by the District Engineer that the requirements of the Endangered Species Act have been satisfied and that the activity is authorized. Information on the location of threatened and endangered species and their critical habitat can be obtained from the U.S. Fish and Wildlife Service and National Marine Fisheries Service (addresses attached, page 14).

10. **Essential Fish Habitat.** As part of the PGP screening process, the Corps will coordinate with the National Marine Fisheries Service (NMFS) in accordance with the 1996 amendments to the Magnuson-Stevens Fishery and Conservation Management Act to protect and conserve the habitat of marine, estuarine and anadromous finfish, mollusks, and crustaceans. This habitat is termed "essential fish habitat (EFH)", and is broadly defined to include "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." Applicants may be required to describe and identify potential impacts to EFH based upon the location of the project, the activity proposed, and the species present. Conservation recommendations made by NMFS will normally be included as a permit requirement by the Corps. Information on the location of EFH can be obtained from the NMFS regulations (50 CFR Part 600) (address listed on page 14) and on their web site (<http://www.nero.nmfs.gov/ro/doc/webintro.html>).

The EFH designation for Atlantic salmon includes all aquatic habitats in the watershed of the following rivers and streams, including all tributaries to the extent that they are currently or were historically accessible for salmon migration:

St. Croix River	Pleasant River	Union River
Boyden River	Narraguagus River	Ducktrap River
Dennys River	Tunk Stream	Sheepscot River
Hobart Stream	Patten Stream	Kennebec River
Aroostook River	Orland River	Androscoggin River
East Machias River	Penobscot River	Presumpscot River
Machias River	Passagassawaukeag River	Saco River

11. **Wild and Scenic Rivers**. Any activity that occurs in a component of, or within 0.25 mile up or downstream of the main stem or tributaries of a river segment of the National Wild and Scenic River System, **must be reviewed by the Corps under the procedures of Category II of this general permit regardless of size of impact**. This condition applies to both designated wild and scenic rivers and rivers designated by Congress as study rivers for possible inclusion while such rivers are in an official study status. The Corps will consult with the National Park Service (NPS) with regard to potential impacts of the proposed work on the resource values of the Wild and Scenic River. The culmination of this coordination will be a determination by the NPS and the Corps that the work: (1) may proceed as proposed; (2) may proceed with recommended conditions; or (3) could pose a direct and adverse effect on the resource values of the river and an individual permit is required. If preapplication consultation between the applicant and the NPS has occurred whereby the NPS has made a determination that the proposed project is appropriate for authorization under this PGP (with respect to wild and scenic river issues), this determination should be furnished to the Corps with submission of the application. The address of the NPS can be found on Page 14 of this permit. *National Wild/Scenic Rivers System (Designated River in Maine) as of 5/2/00: Allagash River beginning at Telos Dam continuing to Allagash checkpoint at Eliza Hole Rapids, approximately 3 miles upstream of the confluence with the St. John River. Length = 92 miles*
12. **Federal Navigation Project**. Any structure or work that extends closer to the horizontal limits of any Corps navigation project than a distance of three times the project's authorized depth (see attached map following page 16 for locations of these projects) shall be subject to removal at the owner's expense prior to any future Corps dredging or the performance of periodic hydrographic surveys.
13. **Navigation**. There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein and no attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized herein.

The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure

or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

14. **Federal Liability.** In issuing this permit, the Federal Government does not assume any liability for the following: (a) damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes; (b) damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest; (c) damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit; (d) design or construction deficiencies associated with the permitted work; (e) damage claims associated with any future modification, suspension, or revocation of this permit.

MINIMIZATION OF ENVIRONMENTAL IMPACTS:

15. **Minimization.** Discharges of dredged or fill material into waters of the United States shall be avoided and minimized to the maximum extent practicable, regardless of review category.
16. **Work in Wetlands.** Heavy equipment working in wetlands shall be avoided if possible, and **if required, shall be placed on mats or other measures taken** to minimize soil and vegetation disturbance. Disturbed areas in wetlands shall be restored to preconstruction contours and conditions upon completion of the work.
17. **Temporary Fill.** Temporary fill in waters and wetlands authorized by this general permit (e.g., access roads, cofferdams) shall be properly stabilized during use to prevent erosion. Temporary fill in wetlands shall be placed on geotextile fabric laid on existing wetland grade. Temporary fills shall be disposed of at an upland site, suitably contained to prevent erosion and transport to a waterway or wetland. Temporary fill areas shall be restored to their approximate original contours but not higher. No temporary fill shall be placed in waters or wetlands unless specifically authorized by the Corps.
18. **Sedimentation and Erosion Control.** Adequate sedimentation and erosion control management measures, practices and devices, such as phased construction, vegetated filter strips, geotextile silt fences or other devices, shall be installed and properly maintained to reduce erosion and retain sediment on-site during and after construction. They shall be capable of preventing erosion, of collecting sediment, suspended and floating materials, and of filtering fine sediment. These devices shall be removed upon completion of work and the disturbed areas shall be stabilized. The sediment collected by these devices shall be removed and placed at an upland location in a manner that will prevent its later erosion into a waterway or wetland. All exposed soil and other fills shall be permanently stabilized at the earliest practicable date.

19. **Waterway Crossings.**

- (a) All temporary and permanent crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed to withstand and to prevent the restriction of high flows, to maintain existing low flows, and to not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
- (b) Temporary bridges, culverts, or cofferdams shall be used for equipment access across streams (NOTE: areas of fill and/or cofferdams must be included in total waterway/wetlands impacts to determine applicability of this general permit).
- (c) For projects that otherwise meet the terms of Category I, instream construction work shall be conducted during the low flow period July 15 - October 1 in any year. Projects that are not to be conducted during that time period are ineligible for Category I and shall be screened pursuant to Category II, regardless of the waterway and wetland fill and/or impact area.

20. **Discharge of Pollutants.** All activities involving any discharge of pollutants into waters of the United States authorized under this general permit shall be consistent with applicable water quality standards, effluent limitations, standards of performance, prohibitions, and pretreatment standards and management practices established pursuant to the Clean Water Act (33 U.S.C. 1251) and applicable state and local laws. If applicable water quality standards, limitations, etc., are revised or modified during the term of this permit, the authorized work shall be modified to conform with these standards within six months of the effective date of such revision or modification, or within a longer period of time deemed reasonable by the District Engineer in consultation with the Regional Administrator of the Environmental Protection Agency. Applicants may presume that state water quality standards are met with issuance of the 401 Water Quality Certification.

21. **Spawning Areas.** Discharges into known 1) fish and shellfish spawning or nursery areas; and 2) amphibian and waterfowl breeding areas, during spawning or breeding seasons shall be avoided, and impacts to these areas shall be avoided or minimized to the maximum extent practicable during all times of year.

22. **Storage of Seasonal Structures.** Coastal structures such as pier sections and floats that are removed from the waterway for a portion of the year shall be stored in an upland location located above mean high water and not in tidal marsh.

23. **Environmental Values.** The permittee shall make every reasonable effort to carry out the construction or operation of the work authorized herein in a manner so as to maintain as much as is practicable, and to minimize any adverse impacts on, existing fish and wildlife and natural environmental values.

24. **Protection of Vernal Pools.** Impacts to uplands in proximity (within 500 feet) to the vernal pools referenced in DEFINITIONS OF CATEGORIES shall be minimized to the maximum extent possible.

PROCEDURAL CONDITIONS:

25. **Cranberry Development Projects.** For Cranberry development projects authorized under the PGP, the following conditions apply:
1. If a cranberry bog is abandoned for any reason, the area must be allowed to convert to natural wetlands unless an individual permit is obtained from the Corps of Engineers allowing the discharge of fill for an alternate use.
 2. No stream diversion shall be allowed under this permit.
 3. No impoundment of perennial streams shall be allowed under this permit.
 4. The project shall be designed and constructed to not cause flood damage on adjacent properties.
26. **Inspections.** The permittee shall permit the District Engineer or his authorized representative(s) to make periodic inspections at any time deemed necessary in order to ensure that the work is being performed in accordance with the terms and conditions of this permit. The District Engineer may also require post-construction engineering drawings for completed work, and post-dredging survey drawings for any dredging work. **To facilitate these inspections, the attached work notification form should be filled out and returned to the Corps for all Category II projects.**
27. **Maintenance.** The permittee shall maintain the work or structures authorized herein in good condition, including maintenance, to ensure public safety. Dredging projects: note that this does not include maintenance of dredging projects. Maintenance dredging is subject to the review thresholds described on the attached DEFINITION OF CATEGORIES sheets and/or any conditions included in a written Corps authorization.
28. **Property Rights.** This permit does not convey any property rights, either in real estate or material, or any exclusive privileges, nor does it authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations. **If property associated with work authorized by the PGP is sold, the PGP authorization is automatically transferred to the new property owner. The new property owner should provide this information to the Corps in writing. No acknowledgement from the Corps is necessary.**
29. **Modification, Suspension, and Revocation.** This permit may be either modified, suspended, or revoked, in whole or in part, pursuant to the policies and procedures of 33 CFR 325.7 and any such action shall not be the basis for any claim for damages against the United States.
30. **Restoration.** The permittee, upon receipt of a notice of revocation of authorization under this permit, shall restore the wetland or waterway to its former condition without expense to the United States and as directed by the Secretary of the Army or his authorized representative. If the permittee fails to comply with such a directive, the Secretary or his designee may restore the wetland or waterway to its former condition, by contract or otherwise, and recover the cost from the permittee.

31. **Special Conditions.** The Corps, independently or at the request of the Federal Resource Agencies, may impose other special conditions on a project authorized pursuant to this general permit that are determined necessary to minimize adverse environmental effects or based on any other factor of the public interest. Failure to comply with all conditions of the authorization, including special conditions, will constitute a permit violation and may subject the permittee to criminal, civil, or administrative penalties or restoration.
32. **False or Incomplete Information.** If the Corps makes a determination regarding the eligibility of a project under this permit and subsequently discovers that it has relied on false, incomplete, or inaccurate information provided by the permittee, the permit shall not be valid and the government may institute appropriate legal proceedings.
33. **Abandonment.** If the permittee decides to abandon the activity authorized under this general permit, unless such abandonment is merely the transfer of property to a third party, he/she must restore the area to the satisfaction of the District Engineer.
34. **Enforcement cases.** This general permit does not apply to any existing or proposed activity in Corps jurisdiction associated with an on-going Corps of Engineers or Environmental Protection Agency enforcement action until such time as the enforcement action is resolved or the Corps determines that the activity may proceed independently without compromising the enforcement action. The Corps may choose not to accept applications or issue permits to any applicant with outstanding violations.
35. **Emergency situations.** This PGP can be used to authorize the repair, rehabilitation, or replacement of those structures destroyed by storms, floods, fire or other discrete unexpected and catastrophic event. In such situations and if the work exceeds Category I limitations, if applicant applies to the Corps within 30 days of the event, the Corps will attempt to contact the resource agencies for their approvals but, if unable to contact them, will issue an emergency permit and review them after-the-fact with the agencies at the next joint processing meeting. Proposed work submitted more than 30 days after the emergency will go through the standard PGP procedures.

DURATION OF AUTHORIZATION/GRANDFATHERING:

36. **Duration of Authorization.** Activities authorized under this general permit that have commenced (i.e., are under construction) or are under contract to commence in reliance upon this authorization will remain authorized provided the activity is completed within twelve months of the date of the general permit's expiration, modification, or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with 33 CFR 325.2 (e)(2). Activities completed under the authorization of the general permit that was in effect at the time the activity was completed will continue to be authorized by the general permit.

37. Previously Authorized Activities.

- (a) Activities which have commenced (i.e., are under construction or are under contract to commence) prior to the issuance date of this general permit, in reliance upon the terms and conditions of the non-reporting category of the previous Maine PGP shall remain authorized provided the activity is completed within twelve months of the date of issuance of this general permit, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with special condition 4. The applicant must be able to document to the Corps satisfaction that the project was under construction or contract by the appropriate date.
- (b) Projects that have received written verification or approval from the Corps, based on applications made to the Corps prior to issuance of this general permit, for the previous Maine SPGP and PGP, Nationwide permits, regional general permits, or letters of permission shall remain authorized as specified in each authorization.
- (c) This general permit does not affect activities authorized pursuant to 33 CFR Part 330.3 (activities occurring before certain dates).

{PRIVATE}DISTRICT
ENGINEER_____

DATE_____

CONTACTS FOR MAINE PROGRAMMATIC GENERAL PERMIT:

U.S. Army Corps of Engineers
Maine Project Office
675 Western Avenue #3
Manchester, Maine 04351
207-623-8367
Fax # 207-623-8206

Federal Endangered Species
U.S. Fish and Wildlife Service
Maine Field Office
1033 South Main Street
Old Town, Maine 04468
207-827-5938
Fax # 207-827-6099

Wild and Scenic Rivers
National Park Service
North Atlantic Region
15 State Street
Boston, MA 02109
617-223-5203

Maine Historic Preservation Commission
55 Capitol Street
State House Station 65
Augusta, Maine 04333
207-287-2132
Fax # 207-287-2335

Aroostook Band of Micmacs
P.O. Box 772
Presque Isle, Maine 04769
207-764-1972
Fax # 207-764-7667

Passamaquoddy Tribe of Indians
Pleasant Point Reservation
Attn: Tribal Council
P.O. Box 343
Perry, Maine 04667
207-853-2600
Fax # 207-853-6039

*Federal Endangered Species and Essential
Fish Habitat*
National Marine Fisheries Service
One Blackburn Drive
Gloucester, Massachusetts 01939
978-281-9102
Fax # 978-281-9301

Houlton Band of Maliseet Indians
Attn: Brenda Commander, Tribal Chief
Route 3 – Box 450
Houlton, Maine 04730
207-532-4273
Fax # 207-532-2660

Passamaquoddy Tribe of Indians
Indian Township Reservation
Attn: Donald Soctomah
P.O. Box 301
Princeton, Maine 04668
207-796-2301
Fax # 207-796-5256

Penobscot Indian Nation
Richard Hamilton, Chief
6 River Road
Indian Island Reservation
Old Town, Maine 04468
(207) 827-7776
Fax # 207-827-1137

*Maine Department of Environmental Protection
(For State Permits and Water Quality
Certifications)*

Natural Resources Division
Bureau of Land and Water Quality Control
State House Station 17
Augusta, Maine 04333
207-287-2111

Southern Maine Regional Office
312 Canco Road
Portland, Maine 04103
201-822-6300

Eastern Maine Regional Office
106 Hogan Road
Bangor, Maine 04401
207-941-4570

Northern Maine Regional Office
1235 Central Drive
Skyway Park
Presque Isle, Maine 04769
207-764-0477

*Maine Land Use Regulation Commission (LURC)
offices*

22 State House Station
Augusta, ME 04333-0022
207-287-2631
800-452-8711 (call to obtain appropriate LURC
office)
Fax # 207-287-7439

45 Radar Road
Ashland, ME 04732-3600
207-435-7963
Fax # 207-435-7184

Lakeview Drive
P.O. Box 1107
Greenville, ME 04441
207-695-2466
Fax # 207-695-2380

191 Main Street
East Millinocket, ME 04430
207-746-2244
Fax # 207-746-2243

(For CZM Determinations)

State Planning Office
Coastal Program
184 State Street
State House Station 38
Augusta, Maine 04333
207-287-1009

*Maine Department of Marine Resources
(For Aquaculture Leases)*
McKown Point
Boothbay Harbor, Maine 04575
207-633-9500

(For Submerged Lands Leases)

Maine Department of Conservation
Bureau of Parks and Lands
22 State House Station
207-287-3061

A. INLAND WETLANDS (WATERS OF THE U.S.)¹	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(a) NEW FILL/ EXCAVATION DISCHARGES	<p>Less than 4,300 sf inland waterway and/or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared).</p> <p>-- Includes projects covered by a State Tier One permit with no cumulative impacts over 15,000 sf in inland wetlands from previous permits, unauthorized work, and/or other state permits.</p> <p>--Includes crossing of perennial waterways designated as Essential Fish Habitat (EFH) for Atlantic salmon² if the waterway is crossed with a span and footprints of the span abutments are outside ordinary high water with no more than 4,300 sf of associated wetland impact.</p> <p>--Includes in-stream work of up to 4,300 sf of fill below ordinary high water in waterways not designated as EFH for Atlantic salmon² and performed in accordance with Maine Permit By Rule standards or a LURC permit.</p>	<p>4,300 sf to 3 acres inland waterway and/or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared).</p> <p>--Impact area includes all temporary and permanent fill and excavation discharges except for incidental fallback.</p> <p>--Includes in-stream work, including crossings (other than spanned crossing as described in Category I) with any discharge of fill below ordinary high water in perennial waterways designated as EFH for Atlantic salmon².</p> <p>--Time of year restrictions determined case-by-case.</p>	<p>Greater than 3 acres inland waterway and/or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared).</p> <p>--Impact area includes all temporary and permanent fill and excavation discharges except for incidental fallback³.</p> <p>In-stream work exceeding Category II limits.</p> <p>If EIS required by the Corps.</p>

¹ Waters of the U.S. in inland rivers, streams, lakes, ponds and wetlands.

² Essential Fish Habitat for Atlantic salmon includes all aquatic habitats in the watersheds of the following rivers and streams, including all tributaries to the extent that they are currently or were historically accessible for salmon migration: St. Croix, Boyden, Dennys, Hobart Stream, Aroostook, East Machias, Machias, Pleasant, Narraguagus, Tunk Stream, Patten Stream, Orland, Penobscot, Passagassawaukeag, Union, Ducktrap, Sheepscot, Kennebec, Androscoggin, Presumpscot, and Saco River.

The larger the impacts, the more likely an individual permit will be required. Projects involving widening, expansion or impacts to degraded or low value wetlands between 1-3 acres may be approved under Category II, subject to the Federal screening. The Corps recognizes and endorses the DEP Tier 2 upper thresholds of 1 acre. Compensatory mitigation is likely to be required at this level of impact.

	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(a) NEW FILL/ EXCAVATION DISCHARGES (continued)	<p>--Impact area includes all temporary and permanent fill and excavation discharges except for incidental fallback.</p> <p>--In-stream work limited to July 15-Oct. 1.</p> <p>--This category excludes situations when a vernal pool of any size may be impacted, in accordance with the ME DEP definition of vernal pool⁴.</p> <p>--This category excludes work within ¼ mile of a Wild and Scenic River⁵.</p> <p>--This category excludes dams, dikes, or activities involving water withdrawal or water diversion.</p> <p>--This category excludes work in National Wildlife Refuges.</p>	Proactive restoration projects with any amount of impact can be reviewed under Category II. The Corps, in consultation with State and Federal agencies, must determine that net adverse effects are not more than minimal.	
(b) BANK STABILIZATION PROJECTS	<p>Inland bank stabilization less than 500 ft. long and less than 1 cy fill per linear foot below ordinary high water in ponds, lakes, and waterways not designated as EFH for Atlantic Salmon², provided there is no wetland fill.</p> <p>--In-stream work limited to July 15-October 1.</p>	<p>--Inland bank stabilization in ponds, lakes, and waterways not designated as EFH for Atlantic salmon² which exceeds Category I limits.</p> <p>--Inland bank stabilization of any size below ordinary high water in waterways designed as EFH for Atlantic salmon².</p> <p>--Other stabilization exceeding Category I.</p>	
(c) REPAIR AND MAINTENANCE OF AUTHORIZED FILLS	<p>Repair or maintenance of existing, currently serviceable, authorized fills with no substantial expansion or change in use.</p>	Replacement of non-serviceable fills, or repair or maintenance of serviceable fills with expansion of any amount up to 1 acre, or with a change in use.	Replacement of non-serviceable fills, or repair or maintenance of serviceable fills with greater than 1 acre of expansion.

⁴ Vernal Pool: Naturally-occurring, or intentionally created for the purposes of compensatory mitigation, temporary to permanent bodies of water occurring in shallow depressions that fill during the spring and fall and may dry during the summer. Vernal pools have no permanent or viable populations of predatory fish. Vernal pools provide the primary breeding habitat for wood frogs, spotted salamanders, blue-spotted salamanders, and fairy shrimp, and provide habitat for other wildlife including several endangered and threatened species.

⁵ National Wild/Scenic Rivers System (Designated River in Maine): Allagash River beginning at Telos Dam continuing to Allagash checkpoint at Eliza Hole Rapids, approximately 3 miles upstream of the confluence with the St. John River. Length = 92 miles

B. TIDAL WATERS AND NAVIGABLE WATERS⁶	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(a) FILL		<p>Up to 1 acre waterway or wetland fill and secondary impacts (e.g., areas drained, flooded or cleared). Includes temporary and permanent waterway fill.</p> <p>--Temporary tidal marsh impacts up to 1 acre.</p> <p>--Permanent tidal marsh, mudflat, or vegetated shallows⁷ fill up to 1,000 sf.</p> <p>-- Proactive restoration projects with any amount of impact can be reviewed under Cat. II. The Corps, in consultation with State and Federal agencies, must determine that net adverse effects are not more than minimal.</p>	<p>Greater than 1 acre waterway fill and secondary impacts (e.g., areas drained, flooded or cleared). Includes temporary and permanent waterway fill.</p> <p>--Temporary tidal marsh impacts over 1 acre.</p> <p>--Permanent tidal marsh, mudflat, or vegetated shallows⁶ fill over 1,000 sf.</p>
(b) REPAIR AND MAINTENANCE WORK	<p>Repair or maintenance of existing, currently serviceable, authorized structure or fill with no substantial expansion or change in use.</p> <p>--Work must be in same footprint as original structure or fill.</p>	<p>Repair or replacement of any non-serviceable structure or fill, or repair or maintenance of serviceable fills, with expansion of any amount up to 1 acre, or with a change in use.</p>	<p>Replacement of non-serviceable structures or fill or repair or maintenance of serviceable structures or fill with expansion greater than 1 acre.</p>

⁶ Navigable Waters: waters that are subject to the ebb and flow of the tide and Federally designated navigable waters (Penobscott River to Medway, Kennebec River to Moosehead Lake, and the portion of Umbagog Lake in Maine).

⁷ Vegetated Shallows: subtidal areas that support rooted aquatic vegetation such as eelgrass.

	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(c) DREDGING	<p>Maintenance dredging of less than 1,000 cy with upland disposal.</p> <p>--Proper siltation controls used</p> <p>--Limited to work between November 1 and January 15</p> <p>--No impact to special aquatic sites⁸.</p>	<p>Maintenance dredging of greater than 1,000 cy, new dredging of up to 25,000 cy, or projects that do not meet Category I. Disposal includes upland, open water or beach nourishment (above mean high water), only if material is determined suitable.</p>	<p>Maintenance dredging (any amount) in or affecting special aquatic sites⁷.</p> <p>See B(a) above for dredge disposal in wetlands or waters.</p> <p>New dredging greater than 25,000 cy or any amount in or affecting special aquatic sites⁷.</p>
(d) MOORINGS	<p>--Private, non-commercial, non-rental single boat moorings not associated with any boating facility⁹ provided not located in a Federal Navigation Project, there is no interference with navigation, it is not located in vegetated shallows⁶, and it is within ¼ mile of the owner's residence or a public access point¹⁰.</p> <p>--Minor relocation of previously authorized moorings and moored floats consistent with Harbormaster recommendations, provided it is also consistent with local regulations, is not located in vegetated shallows, and does not interfere with navigation.</p>	<p>Moorings that do not meet the terms of Category I (e.g., rental or service moorings) and moorings that meet the terms of Category I that are located in a Federal anchorage.</p>	<p>Moorings within the horizontal limits, or with moored vessels that extend, into the horizontal limits of a Federal Navigation Project, except those in Federal anchorages under Category II.</p>

⁸ Special Aquatic Sites: include wetlands and salt marsh, mudflats, riffles and pools, and vegetated shallows.

⁹ Boating Facilities: facilities that provide, rent, or sell mooring space, such as marinas, yacht, clubs, boat clubs, boat yards, town facilities, dockominiums, etc.

¹⁰ Cannot be at a remote location to create a convenient transient anchorage.

	CATEGORY I	CATEGORY II	INDIVIDUAL PERMIT
(e) PILE-SUPPORTED STRUCTURES AND FLOATS	Reconfiguration of existing authorized docks, provided structures are not positioned over vegetated shallows ⁶ or salt marsh and provided floats are supported off substrate at low tide. No dredging, additional slips or expansion allowed.	Private piers and floats for navigational access to waterway (seasonal and permanent).	Structures, piers or floats that extend, or with docked/moored vessels that extend, into the horizontal limits of a Federal Navigation Project. Structures, including piers and floats, associated with a new or previously unauthorized boating facility ⁸ .
(f) MISCELLANEOUS	<p>--Temporary buoys, markers, floats, etc., for recreational use during specific events, provided they are removed within 30 days after use is discontinued.</p> <p>--Coast Guard approved aids to navigation.</p> <p>--Oil spill clean-up temporary structures or fill.</p> <p>--Fish/wildlife harvesting structures/fill (as defined by 33 CFR 330, App. A-4)</p> <p>--Scientific measurement devices and survey activities such as exploratory drilling, surveying or sampling.</p> <p>--Shellfish seeding (brushing the flats) projects¹¹</p> <p>--Does <u>not</u> include oil or gas exploration and fills for roads or construction pads.</p> <p>--This category excludes work in National Wildlife Refuges.</p>	<p>--Structures or work in or affecting tidal or navigable waters that are not defined under any of the previous headings. Includes, but is not limited to, utility lines, aerial transmission lines, pipelines, outfalls, boat ramps, bridge fills/abutments, etc.</p> <p>--Shellfish/finfish (other than Atlantic salmon), or other aquaculture facilities which are consistent with the Corps revised standard siting requirements and standard permit conditions dated 7/6/94, or as revised.</p>	If EIS required by Corps.

¹¹ Brushing the flats: the placement of tree boughs, wooden lath structures, or small-mesh fencing on mudflats for the purpose of enhancing recruitment of soft-shell clams (*Mya arenaria*).